3•2•1® GSX SERIES III

DVD HOME ENTERTAINMENT SYSTEM

Owner’s Guide

Guía de usario

Notice d’utilisation

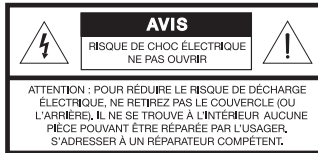
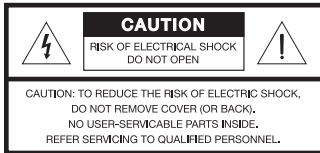
SAFETY INFORMATION

Please read this owner’s guide

Please take the time to follow this owner’s guide carefully. It will help you set up and operate your system properly and enjoy all of its advanced features. Save this owner’s guide for future reference.

WARNING: *To reduce the risk of fire or electric shock, do not expose the system to rain or moisture.*

WARNING: *Do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on or near the apparatus. As with any electronic product, use care not to spill liquids in any part of the system. Liquids can cause a failure and/or a fire hazard.*

ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L’ARRIÈRE). IL NE SE TROUVE À L’INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L’USAGER. S’ADRESSER À UN RÉPARATEUR COMPÉTENT.

The CAUTION marks shown here are located on the bottom of your 3•2•1® home entertainment system media center and the rear panel of the Acoustimass® module:

The lightning flash with arrowhead symbol within an equilateral triangle alerts the user to the presence of uninsulated, dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle alerts the user to the presence of important operating and maintenance instructions in this owner’s guide.

CAUTION: *To prevent electric shock, match wide blade of plug to wide slot, insert fully.*

CAUTION: *Do not place any naked flame sources, such as lighted candles, on or near the apparatus.*

Class 1 laser product

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

This CD player is classified as a CLASS 1 LASER PRODUCT according to EN 60825-1:1994+A1+A2, IEC60825-1:1993+A1+A2.

CAUTION: *Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The DVD player should not be adjusted or repaired by anyone except properly qualified service personnel.*

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Batteries

Please dispose of used batteries properly, following any local regulations. Do not incinerate.

CE This product conforms to the EMC Directive 2004/108/EC and to the Low Voltage Directive 2006/95/EC. The complete Declaration of Conformity can be found at: www.Bose.com/static/compliance/index.html.

Additional safety information

See the additional instructions on the *Important Safety Information* sheet enclosed in the shipping carton.

CONTENTS

Before you begin

Thank you for purchasing the 3•2•1® DVD home entertainment system. Using Bose® proprietary signal processing technology, the 3•2•1 system provides improved spaciousness from stereo recordings and bold movie effects for surround-sound sources.

System features include:

- Small, easy-to-place shelf speakers
- Easy-to-hide Acoustimass® module
- Integrated DVD/CD player and AM/FM tuner
- Remote and media center controls
- HDMI video connection to your TV
- Audio In connectors for three components
- Your choice of language for text displays
- New ways to enjoy your favorite CD tracks with the uMusic® intelligent playback system

What is a uMusic system?

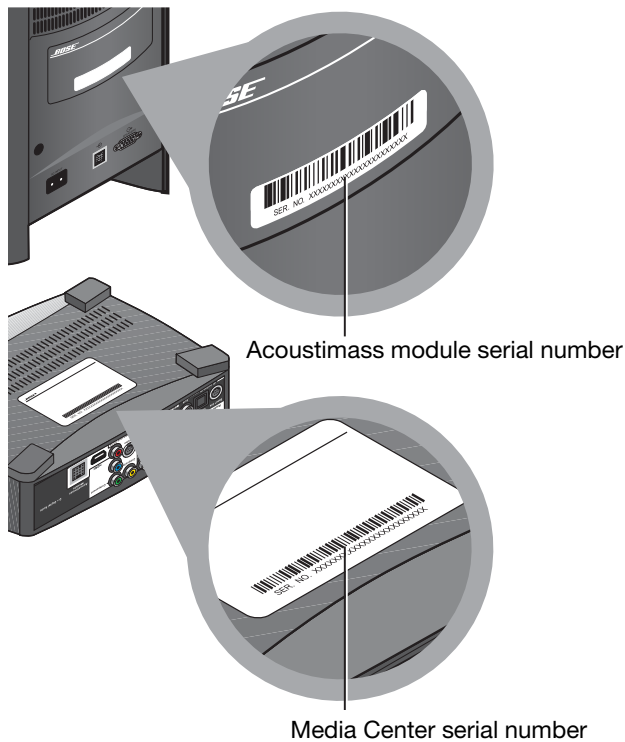
This system features breakthrough Bose technology that enables you to:

- *Store your favorite music in a library with capacity for approximately 200 hours of music (about 200 CDs).*
- *Teach the system which tracks you like or dislike, so it automatically plays the music you want to hear most.*

For your records

As you unpack the system, look for the serial numbers on the rear of the Acoustimass® module and the bottom of the media center.

Acoustimass module serial number

Media Center serial number

This is a good time to record the serial numbers on the lines below and on your product registration card. You may need them if you ever contact Bose® Customer Service.

Acoustimass module serial number:

____

Media center serial number:

____

Dealer name:

____

Dealer phone:

____

Purchase date:

____

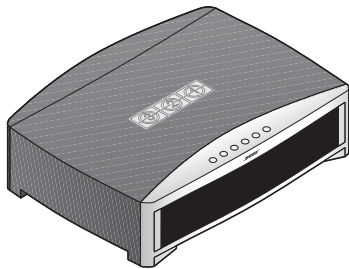
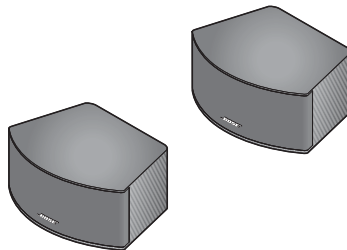
We suggest you keep your sales receipt and the warranty information (on the product registration card) together with this owner's guide.

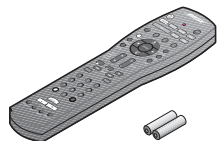
Unpacking

Carefully unpack your system. Save all packing materials, which provide the safest way to transport your system. Make sure your system includes the parts shown.

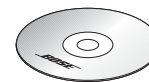
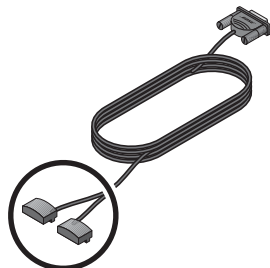
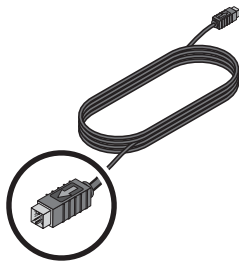
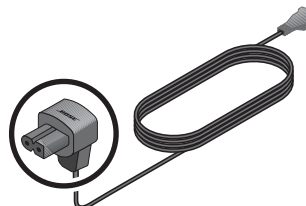
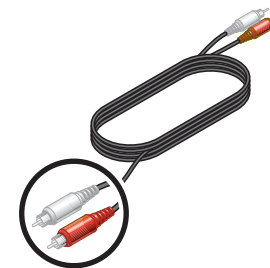
WARNING: *To avoid danger of suffocation, keep the plastic bags out of the reach of children.*

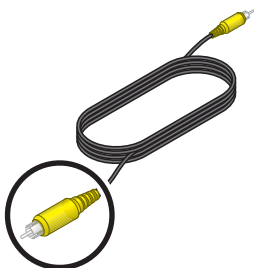
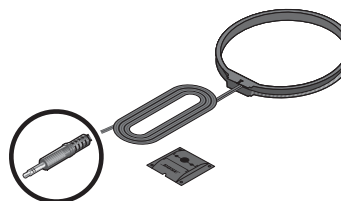
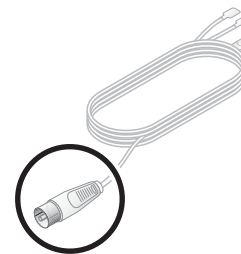
As you identify them, you may want to place a check mark in the box next to the name of each part.

If any part of the system appears damaged, do not try to use it. Notify Bose or your authorized Bose® dealer right away. For contact information, refer to the address sheet included in the carton.

❑ Media center

❑ Speakers

❑ Acoustimass® module

❏ Remote control and batteries

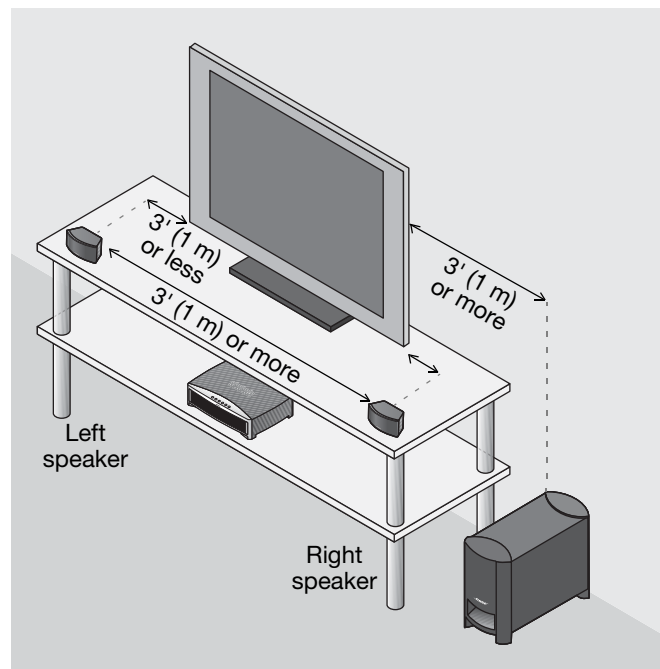
❏ Rubber feet for Acoustimass® module

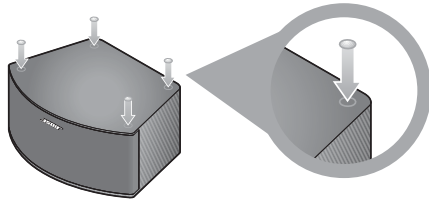
❏ Rubber feet for speakers

❏ Setup disc

❏ Speaker cable

❏ Acoustimass module cable

❏ Acoustimass module power cord

❏ Stereo audio cable

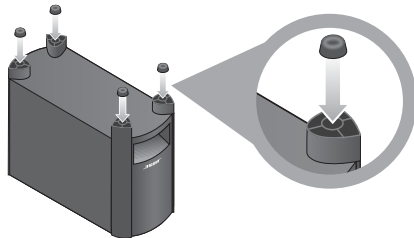
❏ HDMI video cable

❏ Composite video cable

❏ AM antenna and stand

❏ FM antenna

1 Placing the system components

What you need to use:

The image below shows one of the many ways you can position your new 3•2•1® system.

See Steps 1-6 for details.

1. On the bottom of each speaker, attach one set of small rubber feet.

2. Place the left and right speakers:
   - at least 3 feet (1 meter) apart
   - within 3 feet (1 meter) of the TV screen
   - near the front edge of any shelf
   - aimed straight ahead (not angled) to face the listening area

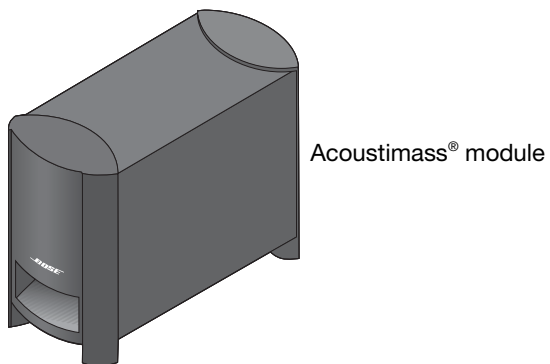
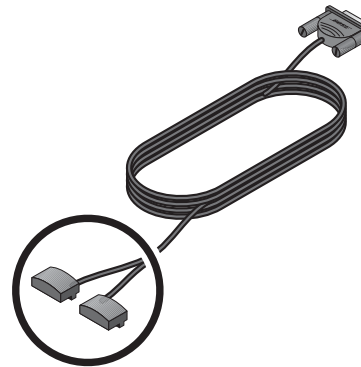
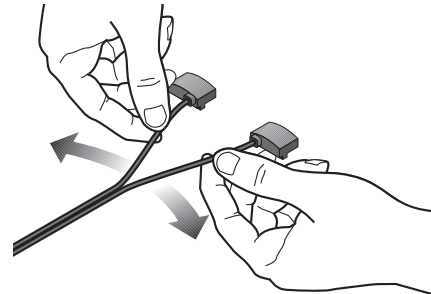
3. On the legs of the Acoustimass® module, attach the large rubber feet.

4. Place the Acoustimass module:
   - at the same end of the room as the speakers and your TV
   - at least 3 feet (1 meter) from the TV to prevent interference with the screen
   - several feet (.8 meters) from audio or video tapes to prevent magnetic damage to them
   - standing upright, not lying on a side, the front, or the back
   - with the front port aimed out from or along a wall for balanced performance
   - hidden under a table, behind a sofa or chair, or behind drapes as preferred
   - NOT in an enclosure, on a bed, on a sofa, or on a surface that can block the ventilation openings.

CAUTION: *Do not block ventilation openings on the bottom and rear of the module.*

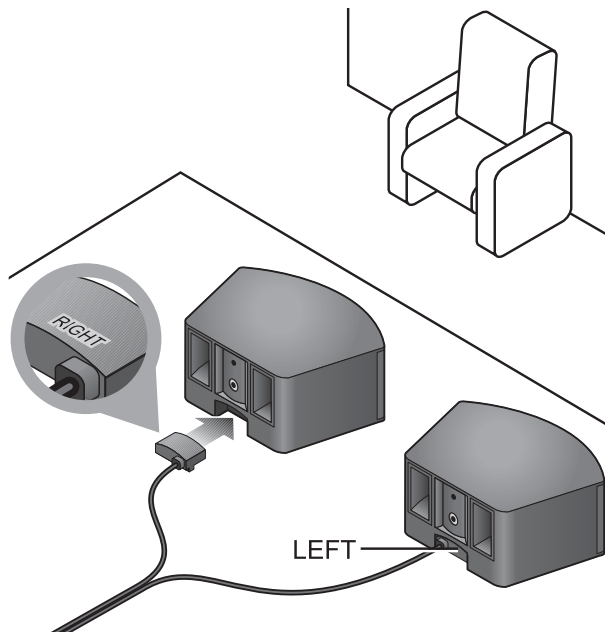
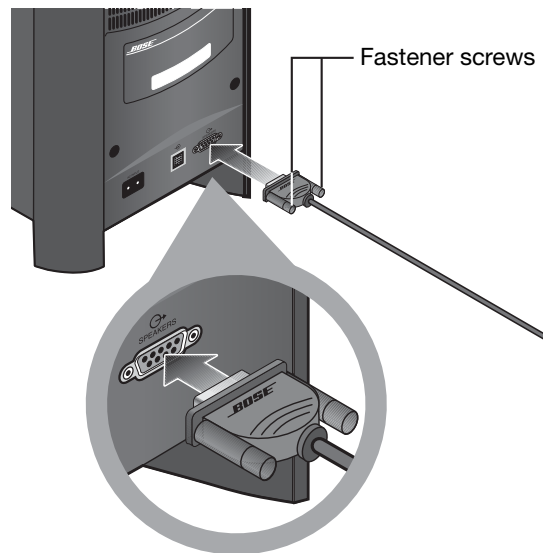
5. Place the media center:
   - where nothing obstructs the front panel
   - near any components you will connect

6. Continue with 2 on the next page.

2 Connecting the speakers to the module

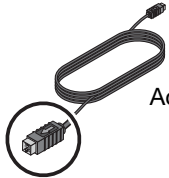
What you need to use:

1. Notice the two plugs at one end of the speaker cable.

2. Separate the two plugs so each one reaches a speaker.

(Refer to 1 for placement guidelines.)

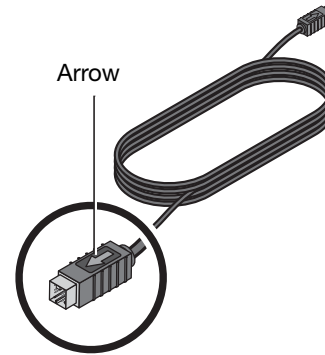
3. Insert each plug into the connector on the proper speaker.

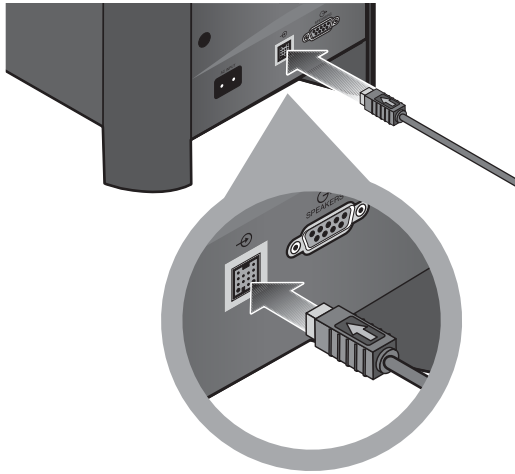
The plug marked RIGHT goes into the speaker placed to the right of your TV.

4. Insert the remaining single plug into the connector labeled SPEAKERS on the back of the Acoustimass® module.

5. Tighten each fastener screw by hand to secure the plug.

CAUTION: *Do not plug the Acoustimass module into an AC power (mains) outlet until all other components are connected.*

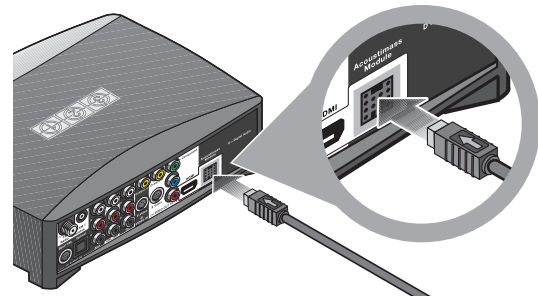
6. Continue with 3 on the next page.

3 Connecting the module to the media center

What you need to use:

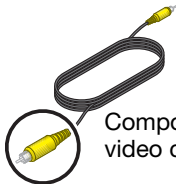
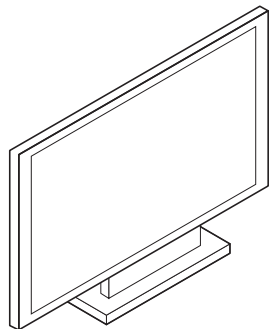
1. Notice the arrow on the top of the multi-pin plug at each end of the Acoustimass module cable.

2. Make sure you can see the arrow on top before you insert either end of the cable.

3. Insert this plug into the connector labeled ⊕ on the back of the Acoustimass® module.

Make sure the arrow on the plug faces up as you insert it.

4. On the other end of the cable, make sure you can see the arrow on top of the plug.

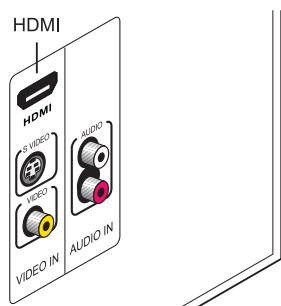
5. Insert this plug into the connector labeled Acoustimass Module on the back of the media center.

6. Continue with **4** on the next page.

4 Connecting the system video to your TV

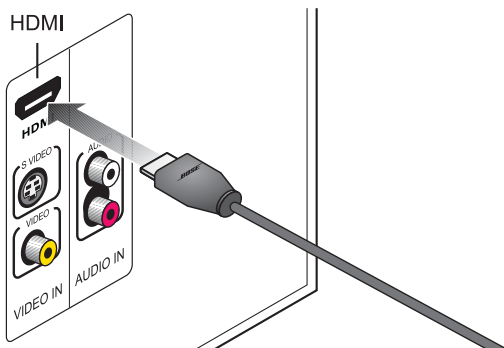
What you may need to use:

This connection allows you to see DVDs and other video from the 3•2•1® system on your TV.

1. Select the HDMI video cable.

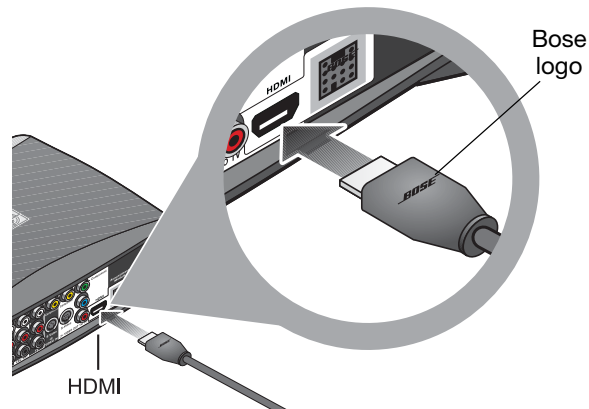
2. Check to see if your TV has an unused HDMI connector for VIDEO IN.

This may be located on the side or rear connector panel of the TV.

3. Follow the directions that are appropriate for your TV:

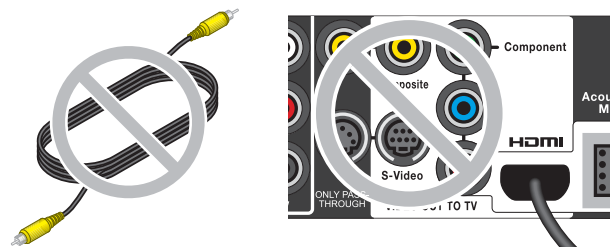
TV with HDMI

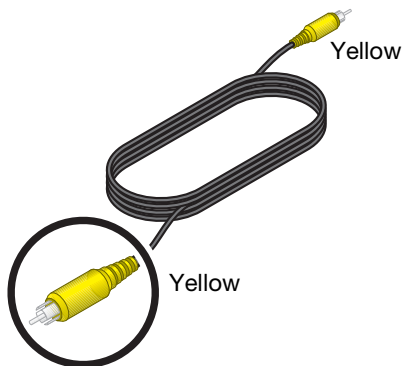
1. Insert one end of the HDMI cable into the HDMI connector on your TV.

Match the wide side of the plug to the wide side of the connector.

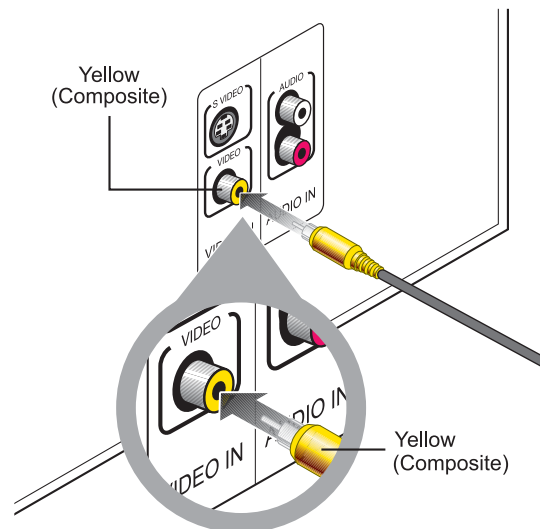
2. Insert the other end of this cable into the HDMI connector on the media center.

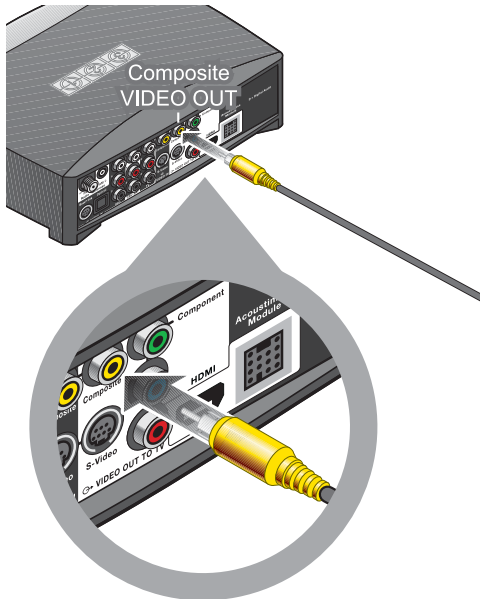
   Make sure the Bose® logo shows as you insert the plug.

3. Continue with 5 on page 17.

Note: *If you make this HDMI connection, you do not need the supplied yellow Composite video cable to make any connections.*

DO NOT use either of the two ONLY PASS-THROUGH connectors on the back of the media center for video from a component. Neither S-Video nor Composite signals can pass through the HDMI cable to the TV.

TV without HDMI

1. Notice the yellow plug at each end of the Composite video cable.

Note: *There may be other kinds of video connectors on your TV that offer higher resolution than Composite. To use either S-Video or Component connectors, you need the appropriate cables. These cables are available at most electronics stores.*

2. Plug the Composite video cable into the yellow VIDEO IN connector on your TV.

Note: *If there is just one Composite Video In connector on your TV, it may be in use already for another video component. You can disconnect that component from the TV, and see "To use video pass through" on page 21.*

3. Insert the other end into the yellow Composite VIDEO OUT connector on the back of the media center.

Note: *If you make this Composite connection, you can use the ONLY PASS-THROUGH connector on the media center for video from another component. See "To use video pass through" on page 21 for further information.*

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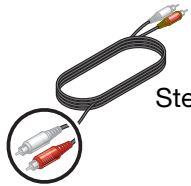
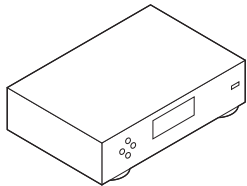
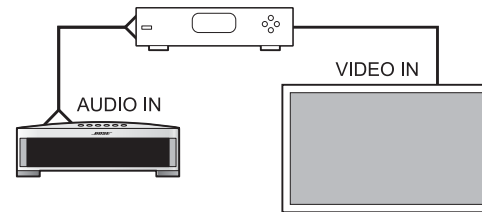
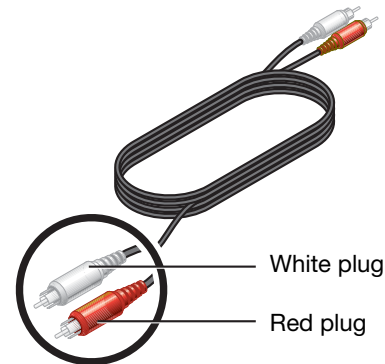
4. Continue with 5 on the next page.

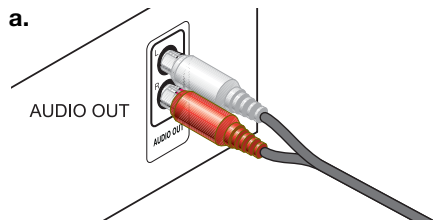
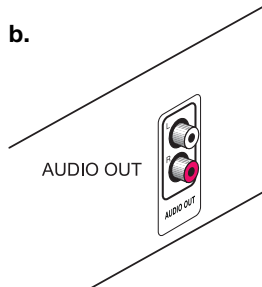
5 Connecting a cable box or other component

What you need to use:

Stereo audio cable

Media center

Your cable box, satellite box, or other component

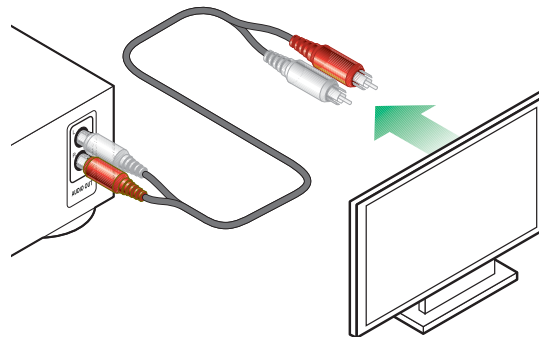
You can listen to another sound source — like a cable or satellite box — through the 3•2•1® speakers instead of your TV.

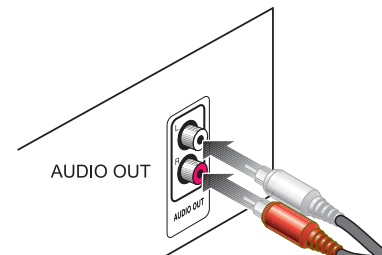
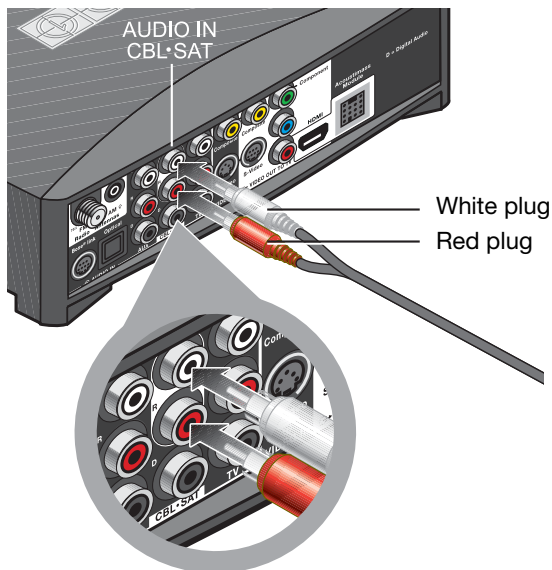
This requires an audio connection only. Leave the video from your component connected to your TV.

5. Select the audio cable that has red and white plugs at each end.

6. Check to see if your cable or satellite box has red and white AUDIO OUT connectors.

A red and white audio cable may (**a**) or may not (**b**) already be attached to these connectors.

c. If there are no AUDIO OUT connectors at all, continue with 6 on page 22.

3. To use the AUDIO OUT connectors, follow **a** or **b** as appropriate.

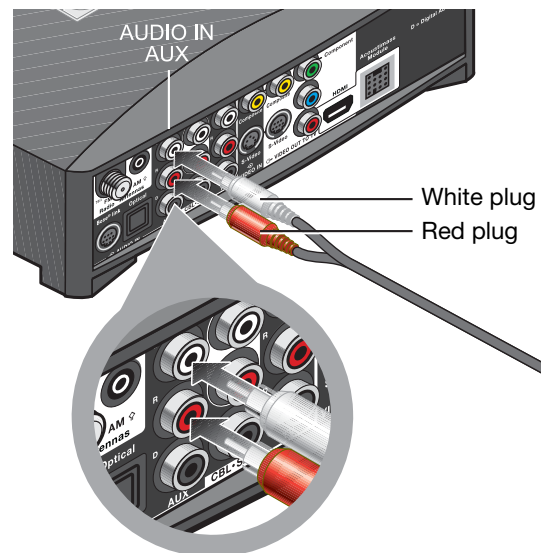
a. If an audio cable is already attached

Disconnect the cable from the TV only.

b. If an audio cable is not yet attached

Connect the cable to your cable or satellite box. Be sure to connect red to red and white to white.

4. Insert the plugs at the other end of the audio cable into the CBL•SAT AUDIO IN connectors on the media center.

To connect another component

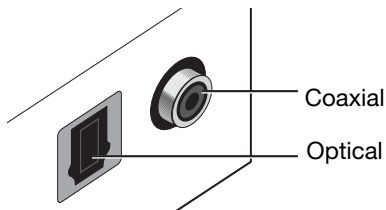
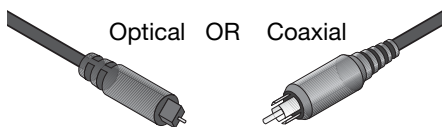
In addition to your cable or satellite box, you can connect a second component, like a VCR. For this you need another audio cable with red and white plugs, available at most electronics stores.

1. Use this additional cable to connect to the AUDIO OUT on your component. Follow the method used in steps 1-3 on the previous pages.

2. Connect the other end of this cable to the AUDIO IN AUX on the 3•2•1® system media center.

To get digital audio from the component

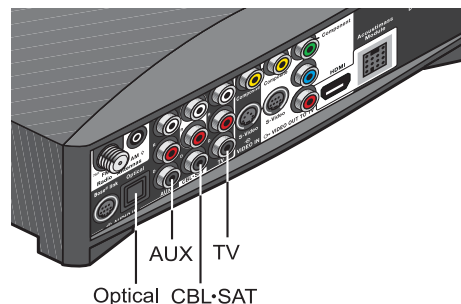
For a component that is already connected to the media center, you can make a digital audio connection too.

For this higher quality audio, you need a digital audio cable that works with your component. Such cables are available at most electronics stores.

1. Identify the digital connector on your component as either an Optical or Coaxial connector.

2. Be sure to use the right cable for this connector.

Note: *If your component has an Optical and a Coaxial connector, use either one but not both.*

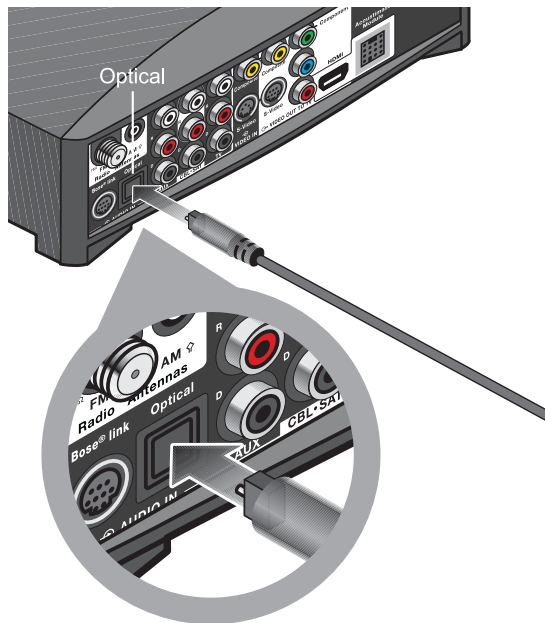
3. Connect one end of your digital cable to the digital AUDIO OUT connector on your component.

   Be sure to keep the red and white audio cable connected. This allows you to hear the audio if the program audio is not digital or the digital signal is interrupted.

4. Locate the appropriate digital AUDIO IN connector, labeled D, on the system media center.

You can make:

- up to 3 coaxial connections
- up to 2 coaxial and one optical connection

Note: *The media center Optical connector is factory set to work with a cable or satellite box. If your Optical component is neither of those, you need to select your component in an on-screen System menu. See “Getting digital audio from a source” on page 45.*

5. Plug the other end of your digital cable into the appropriate AUDIO IN connector on the media center.

The example here shows an Optical digital connection only.

To use video pass through

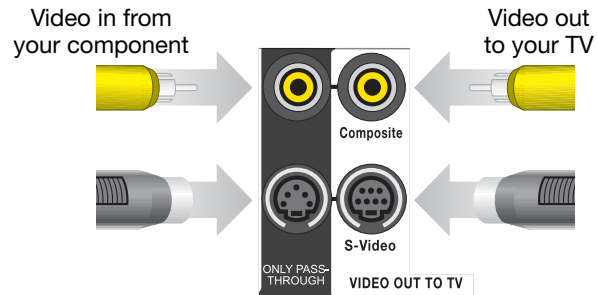
This calls for another composite cable or two S-Video cables, which are available at most electronics stores.

You can make a pass through connection if:

- You have a Composite or S-Video connection between the TV and the media center (not HDMI or Component).

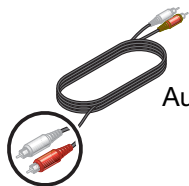
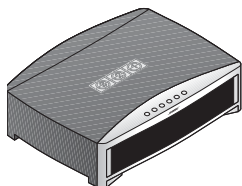
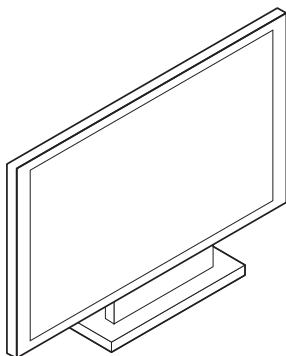
AND:

- You want to connect another video component through the media center to the TV.

Be sure to use one matched pair as shown here:

DO NOT use either of the two ONLY PASS-THROUGH connectors (on the left) if you have made an HDMI or Component connection VIDEO OUT TO TV.

Continue with 6 on the next page.

6 Connecting audio from your TV as an option

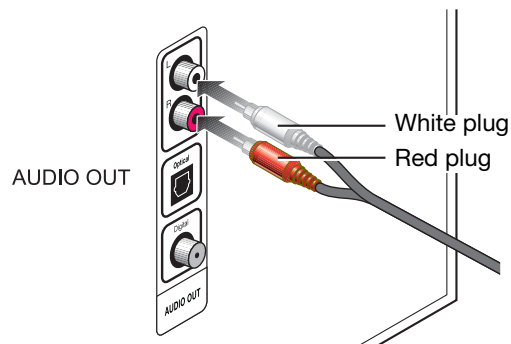
What you need to use:

For some setups, in order to hear your TV sound from your 3•2•1® speakers, you need to make this connection.

If:

- Your cable box does not provide red and white AUDIO OUT connectors.
- You watch TV programs without using a cable or satellite box.
- You connect a video camera or game console to your TV.

If none of the above apply, continue with 7 on page 25.

Note: *If you have already connected the audio cable provided with the system, you need another cable for this connection. These cables are available at most electronics stores.*

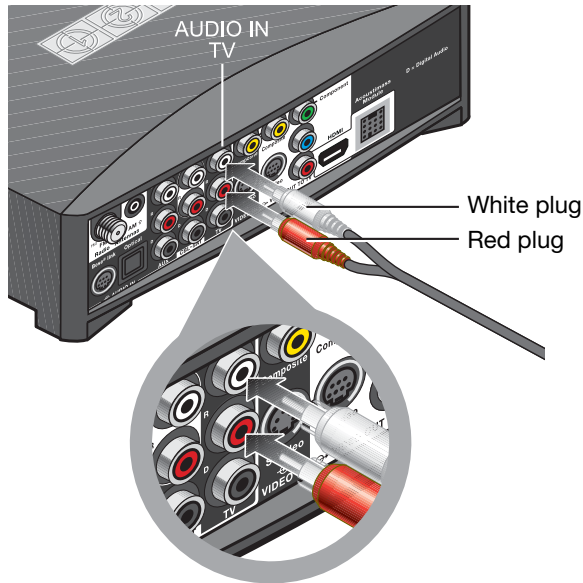
1. Insert the red and white plugs at one end of the cable into the AUDIO OUT connectors on the TV.

Be sure to match red to red and white to white.

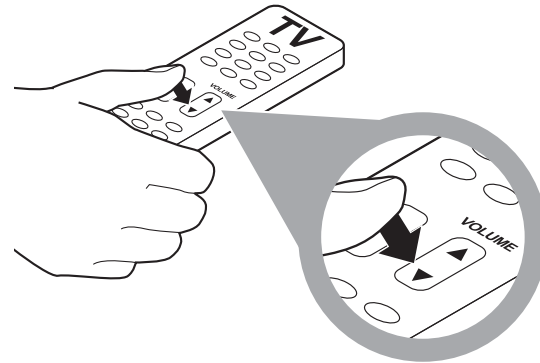
Note: *In addition to this connection, you can make a digital AUDIO OUT connection from the TV to the media center. For more information, review "To get digital audio from the component" on page 20.*

Note: *If your TV does not provide AUDIO OUT connectors, you cannot connect the TV audio to the 3•2•1® system. Continue to use your TV speakers for TV program audio.*

The audio from other components that are connected to the 3•2•1 media center will play through the 3•2•1 speakers.

---

2. Insert the red and white plugs at the other end of this cable into the AUDIO IN TV connectors on the media center.

Be sure to match red to red and white to white.

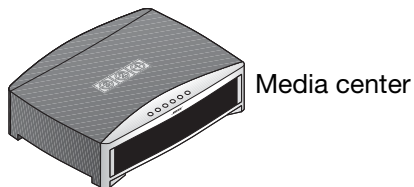
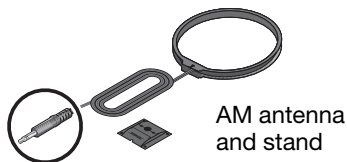
3. Use your TV remote control to turn the TV speakers down to minimum volume.

This prevents the echo effect of audio playing through both the TV speakers and your 3•2•1® system speakers.

7 Installing the FM and AM radio antennas

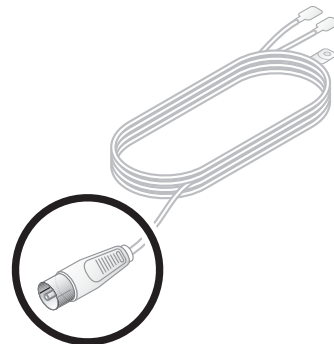
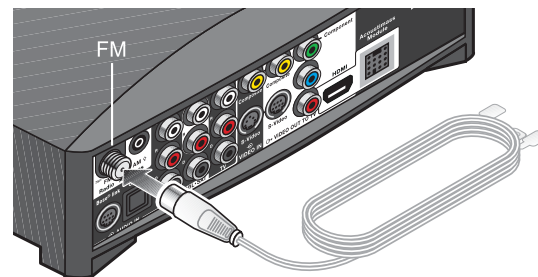
What you need to use:

FM antenna

AM antenna and stand

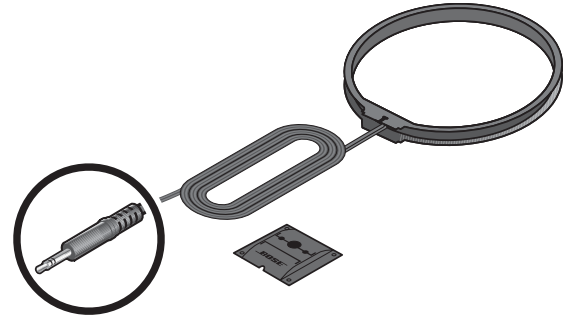
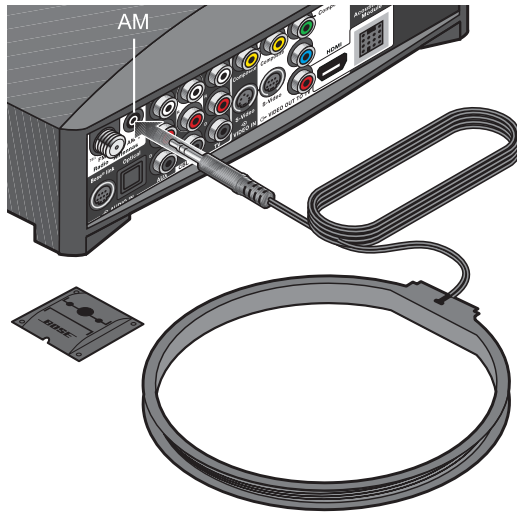
Media center

For radio reception of broadcast radio programs, you need to use the supplied antennas.

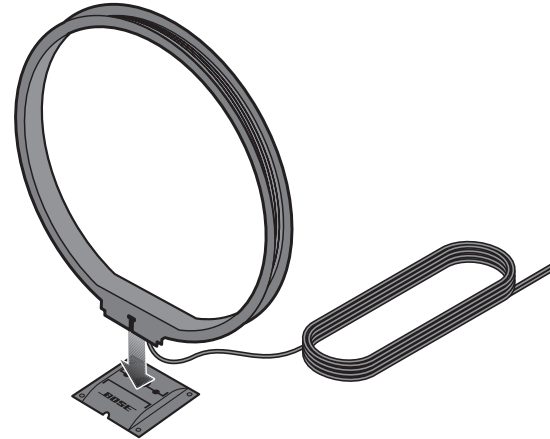
For FM:

1. Select the FM antenna.

2. Insert the antenna plug into the FM antenna connector.

3. Straighten the antenna cable and spread the two ends far apart.

You may need to raise the ends and adjust the position to get clear reception.

For AM:

1. Select the AM antenna and stand.

2. Insert the antenna plug into the AM antenna connector.

3. Press firmly to attach the antenna loop to the provided stand.

   Small tabs on the antenna ring fit into notches on the stand.

4. Place the antenna in an upright position and at lease 20 inches (50 centimeters) from both the media center and the Acoustimass® module.

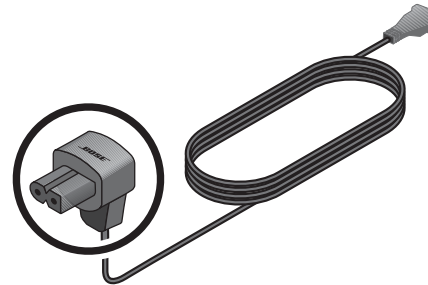
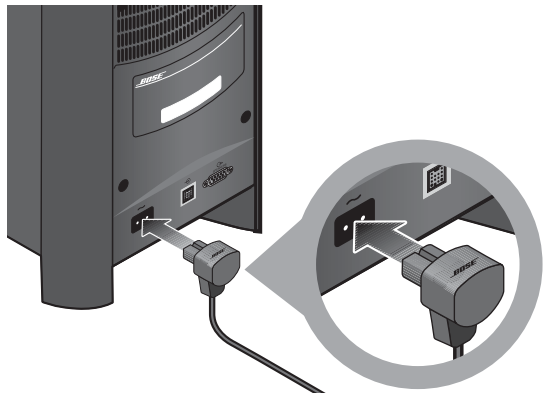
5. Continue with 8 on the next page.

8 Connecting the module to a power outlet

What you need to use:

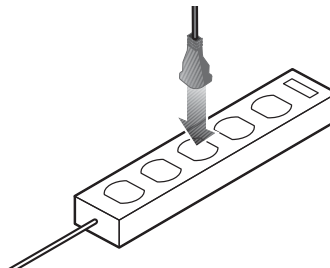
Acoustimass® module power cable

Acoustimass module

1. Notice the large plug at one end of the Acoustimass module power cable.

2. Insert this plug into the power connector that is marked ~ on the Acoustimass® module.

Note: *On some systems, the Acoustimass module includes one of two controls.*

On 220-240V models only**, turn the POWER switch to on (* ***I *).*

***On dual-voltage systems only**, set the voltage switch for the power that is appropriate to the region where you use the system.*

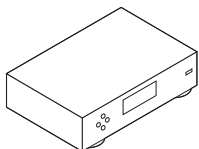
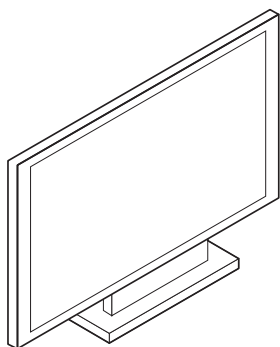
3. Plug the other cable end into the AC (mains) power.

CAUTION: *Bose recommends using a safety agency-approved surge protector on all electronic equipment. Voltage variations and spikes can damage electronic components in any system.*

Note: *Surge protectors are available at most electronics stores.*

4. Continue with 9 on the next page.

9 Setting the remote to control your TV and components

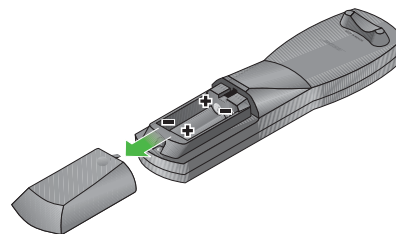
What you need to use:

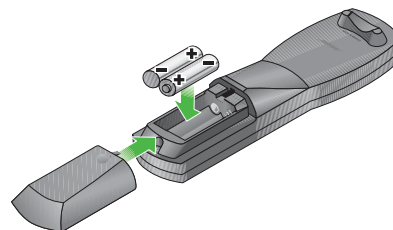
Remote control and batteries

Your component

Your TV

When the batteries are installed, you can set the 3•2•1® remote to control your TV and other components connected to the media center.

Inserting the remote batteries

The two supplied AA batteries go into the compartment on the back of the remote control.

1. Slide the battery compartment cover off.

Symbols inside the compartment show how to match the – and + symbols on the batteries.

2. Insert the two batteries, making sure to match the markings.

3. Slide the cover back until it clicks into place.

Setting the remote for your TV

To use the 3•2•1® remote with your TV, you must set the remote for the proper TV device code.

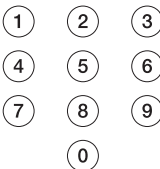
1. Refer to the list of “Device codes” on page A-1.
2. In the list for TVs, find the brand of your TV.
3. Write down several codes for your brand so you can try more than one, if needed.

Note: *If one code works to turn your TV on and off but does not change channels, you can try other codes to find one that provides more complete TV control.*

---

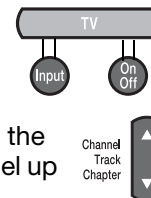
4. Turn on the TV and your 3•2•1 system.
5. On the 3•2•1 remote, press and hold the TV button for several seconds.

   Wait until the red light at the top of the remote turns on.

6. Use the number buttons on this remote to enter the device code for your TV.

   The light turns off briefly as you press each key.

7. Make sure the light turns off completely after all digits are entered.

   If the light blinks now, the code is invalid. Return to step 5 and try a different code for your TV.

8. Point the 3•2•1 remote at your TV and press the TV On/Off button.

   Use the 3•2•1 remote to turn the TV on again and change channels, using the number buttons or by pressing Channel up or down.

   If it performs both operations, this code is correct. Write the code numbers below:

   If this code does not work, repeat steps 5-8 using a different code for your TV.

Note: *For a CD changer or combination CD/DVD player and changer, your brand may not be listed in the CD/DVD device codes on page A-21. In some cases, the same brand of DVD or VCR device codes can work with a changer.*

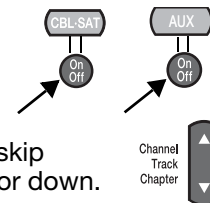
Controlling another component

With your CBL•SAT, VCR, or other component turned on, follow these steps.

1. In the Device Codes list, find the codes for the type and brand of your component.
2. On the 3•2•1® remote, press and hold the button for this component for several seconds.

   Wait until the red light at the top of the remote turns on.
3. Enter the device code for your component.

   The light turns off briefly as you press each key.
4. Make sure the light turns off completely after all digits are entered.

   If the light blinks instead of turning off, the code is invalid. Return to step 2 and try a different code for your component.
5. Point the 3•2•1 remote at your component and press the On/Off button for this source.

   Use the 3•2•1 remote to turn the component on again and to skip forward by pressing channel up or down.

   If it performs both operations, this code is correct. Write the code numbers below:

   If this code does not work, repeat steps 2-5 using a different code for your component.

Trying out the DVD

When you first turn on the system, you can play the provided DVD to get a step-by-step review of your setup.

1. Before you continue, make sure that:

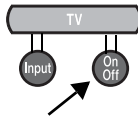
- All of the cables needed for your setup are connected.
- Batteries are installed in the 3•2•1® system remote control.
- The system power cord is plugged in at both ends.

2. Turn on your TV.

- Use the TV On/Off button on the 3•2•1 remote if you have it set up to control your TV.

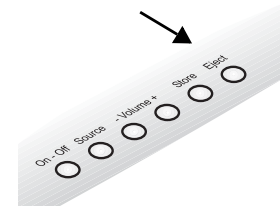
- Or use the remote control that came with the TV.

3. Play the provided DVD.

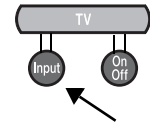
a. Point the 3•2•1 remote control at the media center and press CD/DVD.

b. On the media center controls, press Eject.

c. Insert the disc into the disc tray.

d. Press Eject again to close the tray and begin automatic play.

e. If the DVD does not begin playing, press the play button on the remote.

Playing the DVD helps verify that your system setup is correct.

Note: *If you do not see the DVD video on your TV screen, change the Video Input on the TV.*

Use the TV Input button on the 3•2•1 remote if you have it set up to control your TV.

Or use the button for Video Input on your TV remote control. For more information, refer to the owner's manual that came with your TV.

If you STILL do not see the DVD image on your screen, see the problem identified as "Sound, but no picture" under Troubleshooting on page 65.

The remote control

Aim the *3*•*2*•1® remote control at the media center or at the component you are controlling with the remote.

1. Press the white On/Off button near the top of the remote control.

   The system turns on to the last used source*, which may be:

   - Stored music
   - CD•DVD
   - FM•AM
   - TV
   - CBL•SAT
   - AUX

   If your media center does not respond to the remote:

   - Make sure there is nothing blocking the front display where signals are received.
   - Aim more directly at the media center.
   - Move closer to the system.
     The control range of the remote is roughly 20 feet (6.2 meters).

**If your 3•2•1 system is connected by Bose® link cable to a Lifestyle® system in another room, the Lifestyle® system can be the selected source.*

2. Get to know how the remote works:
   - See the brief descriptions on pages 35-38.
   - Try out the various buttons to see how they work.

Power and source buttons

Turns the 3•2•1® system on and off.

Play begins with the source last used.

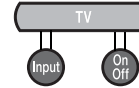
Silences or restores the sound.

Selects stored CDs as the music source and turns on the system.

Play begins in the play mode last used.

Selects the built-in CD/DVD player as source and turns on the system.

Selects the built-in FM/AM radio as source and turns on the system to the station last used.

Switches between FM and AM when the radio is playing.

Selects audio from the TV source and turns your 3•2•1 system on if it was off.

If the remote is set up control your TV:

- Input selects a TV Video Input.
- On/Off turns the TV on and off.

Your remote also provides one of the two buttons shown here:

- For adjusting the on-screen aspect ratio of video from cable, satellite, or TV (but not DVD).
- For displaying teletext information that is provided with broadcast programs (in Europe only).

Selects the audio from the device connected to CBL•SAT on the media center rear panel.

Turns your 3•2•1 system on if it was off.

If the remote is set up to control this source, On/Off turns the cable or satellite box on and off.

Selects the audio from the device connected to AUX on the media center rear panel.

Turns your 3•2•1 system on if it was off.

If the remote is set up to control this source, On/Off turns the AUX device on and off.

Menu and movement buttons

Library

Enters the library of stored CD tracks.

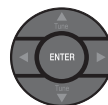
Enters the Settings menu for the source that is playing.

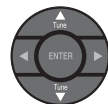
Enters the System main menu.

Displays the DVD menu for the current disc on your TV screen.

Displays an on-screen program guide for any connected video devices that provide a guide.

Exits the 3•2•1® Settings or System menu.

Exits the on-screen menus or information screens of other connected video sources.

Confirms the selection of a menu item.

Moves up, down, left, or right in a menu or screen.

Tunes the FM/AM radio up or down to the next frequency.

Selects the next or previous item in a menu list.

Raises or lowers the volume.

- Pressing + raises the volume and unmutes the system (if muted).
- Pressing – lowers the volume.

Channel
Track
Chapter

Skips backward or forward to the next:

- TV, cable, or satellite channel
- CD track
- DVD chapter

Play and numeric buttons

Halts play of recorded music or video.

Pauses or resumes paused play of recorded music or video.

Starts or resumes play of recorded music or video.

Seek

For CD or MP3: Moves to the previous or next track.

- Press and hold scans through a track.

For DVD and DVR: Moves backward or forward in video.

- More presses increase the speed.

For FM/AM: Moves to the previous or next strong radio station.

Shuffle

For CD: Randomly plays the music.

- Pressing again ends random play.

For DVR: Moves backwards a few seconds with each press.

For Stored: In CD#, Playlist, and Whole CD play modes only, plays the music in random order.

- Pressing again ends random play.

For CD or MP3: Repeats the current track.

- Pressing again repeats the disc.
- Pressing three times ends the repeat.

For DVR: Moves forward a few seconds with each press.

For Stored: In CD#, Playlist, and Whole CD play modes only, repeats the track playing.

- Pressing twice replays the entire disc or playlist.

For CD: Selects a track.

For DVD: Selects a chapter.

For TV, cable, or satellite: Selects the channel of the numbers pressed.

For FM/AM: Selects a preset radio station.

For Stored: Selects a uMusic® preset.

Info

For CBL•SAT: Displays or dismisses an on-screen information window (if one is available).

For MP3: Holding down the button displays or dismisses artist and title information on the media center display panel.

For Stored: Displays detailed track information.

Previous

For TV, cable, or satellite: Returns to the channel last selected.

Record and A, B, C buttons (not in Europe)

These buttons can be used with a DVR, VCR, a cable box, or satellite box. This requires that the 3•2•1® remote is set to control the component.

Starts DVR or VCR recording of the cable, satellite, or TV program that is playing.

Makes a selection from a cable on-screen List A.

Makes a selection from a cable on-screen List B.

Makes a selection from a cable on-screen List C.

Colored buttons (in Europe only)

These buttons can be used with Teletext, a cable box, or a satellite box.

Red – Selects the screen content labeled red.

Green – Selects the screen content labeled green.

Yellow – Selects the screen content labeled yellow.

Blue – Selects the screen content labeled blue.

uMusic® buttons

Selects the uMusic intelligent playback system for stored music play.

Ends other stored music play modes.

Applies a negative (–) or positive (+) rating to stored music.

Ratings can be applied to the track that is playing or to music that is selected in the stored music library.

- ratings end play of the current track and begin a new selection.

+ ratings continue playing the current track.

Selects and plays stored music that matches features of the current track.

Plays tracks of a CD chosen by number in the uMusic system.

Plays all tracks in the playlist (if one is set up).

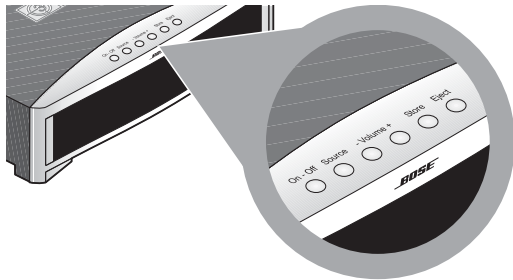
Other play modes, such as Encore, may be applied while the playlist is selected.

Skips the currently playing track to begin play of the CD that included this track.

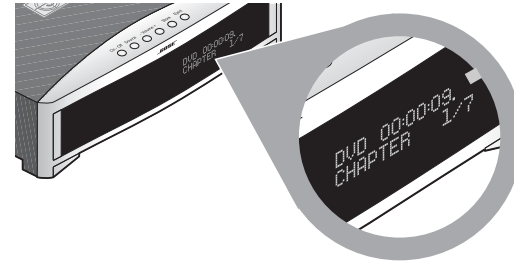
Plays all tracks on the CD in order.

The media center

The front of the media center features:

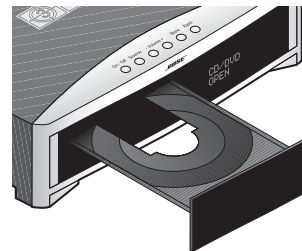
Control buttons

On•Off	Turns the system power on or off.
Source	Displays and sets the choice of play options.
– Volume +	Lowers or raises the volume level.
Store	Copies audio CD tracks into the library.
Eject	Opens or closes the disc tray.

Note: *When you use the Source button on the media center to select a connected component for play, your 3•2•1® remote will not control that component. Press the CBL•SAT or AUX button on the remote to control that source.*

Display

When the system is turned on, the display shows:

- selected source (CD/DVD, for example)
- source status (stopped, for example)
- source data (elapsed DVD time, for example)
- system status (like disc tray OPEN, shown below)

Disc tray

Use the Eject button to open and close this tray.
Do NOT push the tray to close it.

Playing a video disc or CD

1. Press CD•DVD on the 3•2•1® remote.

This turns on the 3•2•1 system and selects the CD/DVD source.

For video play, also turn on the TV.

You may need to change the TV Video Input to see the correct video.

Note: *To prevent mid-play video disc problems, be sure the disc is clean. This is particularly important with rented DVDs.*

2. On the media center control panel, press Eject to open the disc tray.

3. Place the disc (right side up) in the tray.

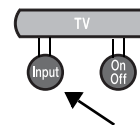
4. Press Eject again to close the tray.

The disc begins to play automatically.

If not, press Play on the 3•2•1 remote.

The media center display registers disc information and progress as the play continues.

Note: *If the display text is not in your language, see "Language choices" on page 48.*

Note: *There are several ways to select a TV Video Input:*
- *If your 3•2•1 remote is set to work with your TV, press the TV Input button.*
- *If the remote is not set to work with your TV, use the Input button on your TV remote control. Or see your TV owner's guide for instructions.*

Selecting a play option

If you want to:

Interrupt play, press Pause on the remote control.

- To resume playing a paused disc, press Pause again. Or press Play.

Halt play, press Stop.

- To resume playing a stopped disc, press Play.
- To restart the disc at the beginning, press Stop once more and then press Play.

Skip to the next CD track or DVD chapter, press Chapter up.

Skip to the previous CD track or DVD chapter, press Chapter down.

Replay part of the disc, press Repeat.

- Press once to replay the CD track or DVD chapter.
- Press twice to replay a CD disc or DVD title.
- Press three times to end the replay.

Scan backward or **forward** through the disc, press and hold Seek reverse or Seek ahead.

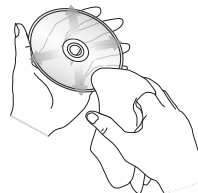
Press Play to end the scan.

Stop a disc **and open** the disc tray, press Eject on the media center.

Keeping your discs clean

Scratches or dirt on a disc can prevent it from playing properly.

To avoid this problem:

- Handle discs by their edges to prevent fingerprints and scratches. Return them to their cases after use.
- Avoid exposing discs to:
  - — chemical products that can cause damage.
  - — writing directly on the disc or on a label attached to the disc.
  - — direct sunlight, high temperatures, and humidity
- Use a soft, dry and lint-free cloth to clean the disc. Wipe straight out from the center to the edge.

Do not use a circular motion

Checking for disc compatibility

If you have trouble playing a disc, check to be sure it is one of the compatible types below.

- Video DVD
- Video CD
- DVD-R, DVD-RW
- Audio CD
- CD-R
- SACDs (CD-compatible content only)
- MP3 CDs:
  - — burned in a single closed session
  - — in disc format ISO9660
  - — with .mp3 as the extension and no other periods in the file name.

Region codes

For any DVD player and DVD disc to work together, the code for the region where they were sold must match. A code symbol is marked clearly on the bottom of your system media center and on the DVD cover (where it may be very small). For example, Region 1 is .

Copy protection

Music and other content may be protected by international and domestic copyright laws and may contain specific restrictions on use and/or reproduction. Please respect the rights of the artists and other copyright holders.

For DVDs: Setting Parental Control

You can password protect some DVDs that are not appropriate for other family members.

Choosing a password

1. Turn on your TV and your 3•2•1® system.

   Be sure to select the same TV Video Input that you use to watch a DVD.

2. Press the System button on your 3•2•1 remote control.

   The System menu appears on screen.

3. Press the right arrow button to select the DVD Lock icon .

4. Press ENTER.

5. Use the number buttons to create your four-digit password.

Setting a restriction level

1. Choose a Parental Control Setting from the chart of ratings defined by the Motion Picture Association of America (MPAA).

Ratings supplied by the MPAA

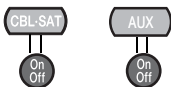
Parental Control Setting	MPAA Rating	Audience Restriction
8		None
7	NC-17	Adult audiences
6	R	Mature audiences
5		Mature teenage audiences
4	PG-13	Teenage audiences
3	PG	Mature young audiences
2		Most audiences
1	G	General

The numbers above the one you select will be restricted.

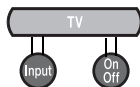
2. In the System menu, select DVD Lock and enter your password.
3. Use the arrow buttons to reach Lock UnRated Discs and select Yes.
4. Move down to Lock Discs Rated Above and right to the numbers.
5. Press the up or down arrow button to select a number.

   Any numbers above this selection will be restricted by password protection.
6. Press ENTER to save this setting and Exit to move out of the System menu.

Playing a cable box or other component

1. Press the button for the source (CBL•SAT or AUX) you want to play.

   This turns on the 3•2•1® system to the selected source.

2. Turn on your component and, if it is a video source, turn on the TV.

   If the 3•2•1 remote is set to control the component, you can press the source On/Off button on the remote.

3. Choose the proper Video Input on your TV if the source is a video component.

Adjusting for audio delay

While playing a DVD, you may notice that the picture and audio are not in perfect sync. For example, you see a person's lips move after you hear the words.

To make small adjustments to this timing, use the audio delay setting on the 3•2•1 system:

1. Press the Settings button on the 3•2•1 remote control.

   The Settings menu appears on screen.

2. Move down to the audio delay icon and press ENTER.

3. Select an adjustment (1-8) and wait to see if this corrects the problem.

   Each selection makes a minute timing adjustment. It may be difficult to notice the change.

Getting digital audio from a source

For an Optical digital audio connection to the media center, the connected component must be recognized by the system.

Currently, the system is set to recognize CBL•SAT as the Optical component.

If the Optical connection is for a different component:

1. Display the 3•2•1® system menu on the TV by pressing System.
2. Move right to the Media Center icon and press ENTER.
3. Move down to Optical Source and press ENTER.
4. Move up or down to select a component from the list and press ENTER.
5. Press Exit to leave the System menu.

Note: *When using your 3•2•1 system with the TV, turn the volume on your TV set all the way down. This prevents an echo effect from two sets of speakers playing.*

Choosing other options

The 3•2•1 system provides optional settings and adjustments to meet your specific needs.

For example you can:

- Set a countdown time for the system to turn off automatically.
- Choose another language for text on the media center display and in system menus.
- Adjust the bass or treble audio compensation.
- Change the image format on your TV screen.

Note: *Your TV may provide an on-screen menu to make changes to the video image.*

For a full list and description of these options, see “Adjustments to the performance” on page 47.

Listening to the radio

Your 3•2•1® system includes an FM and AM radio.

1. On the 3•2•1 remote, press FM•AM.

This turns on the 3•2•1 system and plays the radio station last selected.

2. Press the FM•AM button to switch between FM and AM.

3. Press the Channel up or down buttons to tune from one station to another.

To tune to:

- A preset station, press the Preset number button.
- The next clear station, press a Seek button.

Creating a preset

You can assign a preset number for 20 FM and 20 AM stations. Then, by pressing the preset number, you tune immediately to the particular station:

1. Tune to the station you want to assign to a preset.

2. Choose the number you want to assign to that station.

3. Press and hold the chosen number button:

- For numbers 1 through 9, press and hold the button.

  PRESET:x* SET appears briefly on the media center display.

- For numbers 10 through 20, press the first number, then press and hold the second number.

  PRESET:xx* SET appears briefly on the display.

Removing a station from a preset

1. Press the number of the preset.

2. Listen to be sure this is the preset you want to erase.

3. Press and hold zero.

PRESET:xx* ERASED appears briefly on the display.

**x represents the number you select.*

Changing system features

If your system operates as you want it to, you may not need any changes.

Some kinds of setup, however, require a change for optimal performance. In most cases, you make a System change just once.

The features that you can change include:

- Stored CDs*
- Audio
- Video
- Media Center
- DVD Lock

Using the DVD Lock feature is described in “Playing a video disc or CD” on page 40.

For details on the other options available, refer to the tables on the pages that follow.

*Refer to the separate uMusic® booklet for information on this source.

To get to the System menu

The System menu appears on your TV screen only.

1. Turn on your 3•2•1® system.
2. Turn on your TV and select the TV Video Input that you use to watch a DVD.
3. Press the System button on your 3•2•1 remote.

   The System menu appears on your TV screen.
4. To get into the menu, move right and select an icon (like Media Center, shown on page 48) for one of the system features.

   The list of options appears on the menu screen.

Note: *Entering the System menu pauses a DVD or CD.*

Selecting a new option

1. Make sure you see the System menu on your TV screen.
2. Move right to select the system feature you want to change and press ENTER.
3. Press the up and down buttons to move to the option you want.

   As explanation for each options appears at the bottom of the menu when you highlight the option by moving up or down.
4. Press ENTER to select the option.
5. Change the option by selecting a new setting (or by pressing number buttons, as needed).
6. Press Exit to leave the System menu.

Language choices

You can select the language you prefer to see on-screen and on the media center display. To make this change, move to the Display Language option in the Media Center feature of the System menu.

Audio options

These options affect the way the system sounds in your home.

Option	Default Setting (Options)	Description
Bass Compensation	0 (–14 to +14)	Zero is for standard low-tone performance. – decreases and + increases these low tones.
Treble Compensation	0 (–14 to +14)	Zero is for standard high-tone performance. – decreases and + increases these high tones.
Audio Processing	Automatic (User Adjustable)	Keeps Bose® processing as the standard. Allows some processing options (Movie EQ, Range Compression, Mono Decoding) to appear in Settings menus.
Input Levels: TV Analog Input Level TV Digital Input Level CBL•SAT Analog Input Level CBL•SAT Digital Input Level AUX Analog Input Level AUX Digital Input Level	Normal (–6, –3, +3, +6)	Decreases or increases the volume level setting for the input of a connected component. This minimizes abrupt volume changes when you switch from DVD or FM•AM audio on the Bose media center to audio from a connected component. ***Note:*** *To match AM and FM levels, which can vary depending on the program or station, adjusting the volume on your audio component may be preferable.*
DVD Audio *(Only for TVs connected to the media center by HDMI cable.)*	Bose 3•2•1 (TV Stereo)	Plays the DVD audio from 3•2•1® media center over the 3•2•1 speakers. Sends two channels of DVD audio by HDMI cable to the TV and plays this sound on the TV speakers as well as on the Bose® speakers.

Video options

These options affect the way the picture looks on your TV.

Option	Default Setting (Options)	Description
Widescreen TV ***Note:*** *If your TV is connected using an HDMI cable, you may not see a choice of settings.*	Yes (16:9) (No 4:3)	Yes tells the system that widescreen (16:9) is the TV format. No tells the system that 4:3 is the TV format. For a TV connected using a Composite, S-Video, or Component cable, selecting No also makes available the DVD Image option (below). ***Note:*** *If you are not sure what type of cable is used to connect your TV, check the Video Connector indicator, which is explained on page 51.*
DVD Image ***Note:*** *This option is NOT available UNLESS you have selected No in the Widescreen TV option (above) for your TV connected using a Composite, S-Video, or Component cable (not HDMI).*	Modified (Original)	For a TV connected using an HDMI cable: Modified allows the Bose® system to automatically provide the resolution that is preferred for your TV (usually 720 or 1080), so the image fills the screen. You can change this video resolution in the Settings menu. Original tells the Bose® system to keep the image in the original DVD format (in 480 or 576 resolution), regardless of how it fills the screen. No change can be made to this video resolution in the Settings menu. (Some TVs determine automatically how to fill the screen, overriding any choice.) For a TV connected using non-HDMI cable: Modified allows the Bose system to adjust the images on some widescreen DVDs to fill a 4:3 TV screen. This is done by removing the black bars on top and bottom and by cropping the sides of the image. (Many DVD images, even widescreen, will still appear with black bars on top and bottom.) Original tells the Bose system to keep the image in the original format of the DVD. A widescreen DVD image will have black bars on top and bottom.

Option	Default Setting (Options)	Description
Video Connector *(Only an indicator.)*	(HDMI) (Composite + S-Video) (Component)	Identifies the type of video connection made on the back panel of the media center. This is not an adjustable setting.
Video Black Level *(Appears on screen only if the TV connects to the media center using a Composite or S-Video cable.)*	Normal (Extended)	Screen black level generally appropriate for most TVs. Darkens the intensity of the black on screen.
TV Video Format	NTSC - US (PAL - EUROPE) (MULTISTANDARD)	Correct for NTSC (U.S. standard) monitors. Correct for PAL (European standard) monitors. Only for a TV that supports multiple formats (NTSC and PAL).
Progressive Scan *(Appears on screen only if the TV connects to the media center using a Component cable. It is not needed with HDMI.)*	Off (On) ***Note:*** *If selecting On distorts your screen, press the remote up arrow to reselect Off.*	Screen image repaints in standard style. Screen image repaints in advanced style (if your TV provides this option). ***Note:*** *With an HDMI connection, you will not see the On option. The HDMI cable automatically senses your TV capabilities and applies progressive scan as appropriate.*

Media center options

These options affect general operation of the system.

Option	Default Setting (Options)	Description
Display Brightness	4 (1 to 4)	Media center display shows text at its brightest. Choosing a lower number darkens text on the display.
Display Language	English (Dansk, Deutsch, Español, Français, Italiano, Nederlands, Svenska)	On-screen display menus appear in the selected language.
Optical Source	CBL•SAT (TV, AUX)	Set for a component connected by Optical cable to the CBL•SAT AUDIO IN on the 3•2•1® media center. Identifies a different component connected by Optical cable to the media center.
Tuner Spacing	US (European)	Applies the regional standard for incremental spacing between AM and FM stations.
Bose Link Room Code	B (C, D, E, F, G, H, I, J, K, L, M, N, or O)	Links the 3•2•1 system to a unique code so it works with Bose® link as a second room sound source. Bose link expansion is a Lifestyle® system feature.

Option	Default Setting (Options)	Description
uMusic Preset	1 (2, 3, 4, 5, 6, 7, 8, 9)	The Preset selected for making edits.
uMusic Preset Action	Edit Name Clear Playlist Clear Ratings	Opens a screen for naming or renaming the selected uMusic® Preset. Empties the system playlist. Deletes all ratings entered in the selected uMusic Preset.
Restore Settings	No (Yes)	Maintains your established changes in the Settings menu. Returns all of your selections in the Settings menu to the original factory settings.

Choosing new settings

You can use the 3•2•1® Settings menus for quick adjustments while you watch a video or listen to music.

For example, if you want to change the screen resolution for DVDs, you will find that option in the TV Settings menu.

To see these options, enter the Settings menu for the selected source. Symbols and definitions for the options that are offered appear on screen.

Note: *Some of the settings made while you are playing a particular source are temporary. When you change sources or turn off the system, these settings revert to the factory selections.*

To get to the Settings menu

1. Use the 3•2•1 remote to select the audio or video source that you want to change.
2. Press the Settings button.

   The Settings menu that affects this source appears on your media center display.

   It also appears on screen if your TV is on and you select the proper TV Video Input.
3. Move up or down to the option you want and press ENTER.
4. Move right to select a new setting for that option and press ENTER.
5. Press Exit to leave the Settings menu.

The Settings menu appears as a vertical bar of icons. To familiarize yourself with the icons, see “Settings options” on pages 55-59.

Settings options

Features	Default Setting (Options)	Effect
Audio Delay *Available only for DVDs and connected video components.*	0 (0, 1, 2, 3, 4, 5, 6, 7, 8)	Each number change adjusts the delay by about 30 milliseconds. The most noticeable mismatch in the video and audio synchronization (caused by the video processing in some TVs), occurs in scenes with people talking. If they appear to finish sentences before their lips stop moving, select a different Audio Delay setting to correct this condition.
Movie EQ *Available only if Audio Processing is set to Adjustable in the Audio System menu.* *(Not available for CD or FM·AM.)*	Off (On)	Leaves the equalization of the movie soundtrack as originally recorded. Adjusts the equalization of the movie soundtrack to better suit some home theater installations. ***Note:*** *To turn on Movie EQ, the Audio Processing option in the System menu must be set as User Adjustable.*
Range Compression *Available only if Audio Processing is set to Adjustable in the Audio System menu.* *(Not available for CD or FM·AM.)*	Off (On)	Leaves the volume range of the movie soundtrack as originally recorded. Reduces the volume range of sounds on a movie soundtrack. Late at night or at other quiet times, the startling difference between the quietest and loudest audio passages in a movie can be a problem. Turning this feature On moderates those effects. ***Note:*** *To turn on Range Compression, the Audio Processing option in the System menu must be set as User Adjustable.*

Features	Default Setting (Options)	Effect
Mono Decoding *Available only if Audio Processing is set to Adjustable in the Audio System menu.* *(Not available on CD or FM·AM.)*	Off (On)	When one-channel (mono) is the audio input, this mono signal is sent to both speakers. Processes the signal from one-channel (mono) audio input (if it is detected) for right and left channel output.
Audio 1 + 1 *Available only if a dual mono signal is detected on a video CD or digital broadcast.*	1 (2, Both)	Allows you to decode and play bilingual audio from a VCD or single-channel digital broadcast. When the digital audio content is on two channels, each channel carries a unique mono soundtrack (1 + 1). Changing this setting allows you to hear the audio on mono channel 2, or both mono channels at the same time.
Video Resolution *Adjustable only for a TV connected by HDMI AND only if the DVD Image setting in the System menu is Modified.*	_____* Default (1080p, 1080i, 720p, 480/576p, 480/576i)	Your 3•2•1® system sets its DVD video resolution to match the default that is communicated to it by the TV. You can experiment with other settings to see which one provides the best picture. HDTVs can accept different resolutions as input, and in some cases the highest number does not result in the best picture. ***Important note:*** *When you change resolution, your TV screen takes several seconds to make the transition. Allow for this adjustment before pressing other buttons.*

Features	Default Setting (Options)	Effect
Time *(For DVD only.)*	_:_ _ (0:00)	Changing the elapsed time moves to a different point in the DVD.
Title *(For DVD only.)*	__ of __	Changing the first number moves to a different title on the current disc. Some DVDs do not allow direct access to titles.
Chapter *(For DVD only.)*	__	Changing this number moves to a different chapter on the current disc. Some DVDs do not allow direct access to chapters.
Audio Track *(For DVD only.)*	Dependent on disc	Gives you a choice of audio tracks on the current disc.
Subtitle Language *(For DVD only.)*	Dependent on disc	Gives you a choice of subtitle languages (if several are included on the disc).
Camera Angle *(For DVD only.)*	1 of __	Gives you a choice of camera angles (if several are included on the disc).

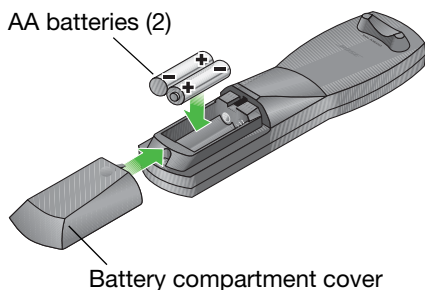
Features	Default Setting (Options)	Effect
A-B Repeat *(For DVD only.)*	A, B	Repeats a segment of the DVD after the start and end points are defined. To begin: **1.** Move backward or forward to the point in the DVD where you want the segment to start. **2.** Press ENTER. **3.** Move to the point where you want it to end. **4.** Press ENTER. Repeats until you select this setting option again and press ENTER.
Track *(For CD only.)*	__ of __	Changing this first number moves to a different track on the current disc.
Sleep Timer	Off (10-90)	Setting countdown minutes causes your 3•2•1® system to turn off when the time reaches 0. The choices, from 10 to 90 minutes, are divided into 10-minute increments. To cancel the timer, select Off.
Output Mode *(For FM only.)*	Auto (Mono-Stereo)	Allows you to choose stereo or monaural (mono) audio performance by selecting: • Auto – The FM tuner will automatically play in stereo if that is available. Otherwise, it will play in mono (single channel). • Mono – The FM tuner will always play in mono. • Stereo – The FM tuner will always play in stereo if available. Otherwise, it plays mono. When you change the tuner frequency, the setting resets to Auto.

Features	Default Setting (Options)	Effect
RDS Info *(For FM and only on some systems.)*	On (Off)	Displays any station and program information that is available from the Radio Data System.
uMusic Preset	1 or the last preset used (1-9 or names)	Displays the number or name of the current preset for editing.
Play Mode *(An indicator only.)*	uMusic (Library, Encore, CD#, Playlist, Whole CD, Shuffle, Repeat)	Shows which stored music play mode is currently selected. This is not an adjustable setting.

Replacing remote batteries

Replace both batteries when the remote control stops operating or its range seems reduced. Alkaline batteries are recommended.

1. Slide open the battery compartment cover on the back of the remote.
2. Remove both batteries.

   Be sure to dispose of the batteries according to the regulations in your area.
3. Insert two AA (IEC-R6) 1.5V batteries, or the equivalent. Match the + and – symbols on the batteries with the + and – markings inside the compartment.
4. Slide the battery compartment cover back into place.

Protecting the system

Follow the guidelines below for keeping the system in good working order.

- Do not allow liquids to spill into any openings.
- Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.
- Do not use any sprays near the system.

Cleaning the media center

Use only a soft, dry cloth to clean the outside surfaces of the media center.

Cleaning the speakers

Use a soft, damp cloth. Or use an ammonia-free window cleaner on a soft cloth to maintain the finish.

Troubleshooting

System issues	What to do
System doesn't turn on	• Make sure the Acoustimass® module power cord is inserted securely into the AC (mains) power outlet and into the power connector on the Acoustimass module. • Be sure to press a source button (CD•DVD, CBL•SAT, etc.) on the 3•2•1® remote. • Unplug the power cord for 60 seconds, then plug it in again. This allows the unit to reset itself after a power surge or power interruption. • For a 230-240V system (used typically in Europe), make sure the power switch on the Acoustimass module is turned on (**I**). • For a dual voltage 3•2•1 system only, make sure the voltage setting is correct for your region. If it is set to 115V, the system may not operate in a 230V region. ***CAUTION:*** *Do not change the voltage switch from 230V to 115V unless you are certain it is appropriate for the power supply in your location.*
No sound	• Increase the volume. • Check to see if MUTE is lit on the display. If it is, press the Mute button on the remote control to unmute the sound. • Be sure that you have pressed the correct source button (CD•DVD, CBL•SAT, etc.) on the 3•2•1 remote. • Check the audio connections for the component you want to play. • Connect the FM and AM antennas. • Make sure that the cable between the Acoustimass module and the media center is connected securely. • Check connections between the speakers and the Acoustimass module. • Turn off the media center for 60 seconds, then on again, to restore communication between the media center and the speakers.
Sound is distorted	• Make sure speaker cables are not damaged and the connections are secure. • Reduce the volume level on the external device playing through the 3•2•1 system speakers.
Sound is marred by a loud hum or buzz	• Try plugging your system into a different AC outlet. • Check to see if your media center and its audio input cable are within 3 ft (1 m) of any other electronic or electrical device. Some examples are a TV, cable box, VCR, wireless internet router, dimmer switches, blinking lights, or microwaves. • Move the media center farther away and notice if the humming still occurs.

System issues	What to do
No sound from TV only	• If your TV has Variable instead of Fixed audio output, you need to turn off the TV speakers internally. Refer to your TV owner's guide and follow the instructions provided there.
Speech and lip movement on screen are not in sync	• Adjust the Audio Delay using the Settings menu on screen. For details, refer to "Choosing new settings" on page 54.
Radio does not work or has poor reception	• Make sure the antennas are connected and positioned as shown in "Installing the FM and AM radio antennas" on page 25. • Adjust the FM antenna position to reduce interference. • Move antennas farther from the media center, TV, or other electronic equipment. • Select another station. You may be in an area of weak signal coverage for some stations.
Volume level changes when another sound source is selected	• Change the Audio Level for the source input so its volume matches the volume of the radio and DVD in the Bose® system. Refer to "Audio options" on page 49.
Remote issues	**What to do**
3•2•1® remote does not control your TV, CBL•SAT, or AUX component	• Make sure that the remote is set to control the component. Refer to "Setting the remote for your TV" on page 31. • Make sure that the front of the component is not obstructed. • Reset the remote using a different device code for the component you want to control. Refer to "Device codes" located at back of the book. There may be several codes that can turn the component on and off, but only one that provides further control (channel changing, for example).
3•2•1 remote behaves erratically or does not work	• Aim the remote at the front of the media center. • Make sure the battery polarity (+ and –) matches the polarity marked in the battery compartment. • Install new batteries. Refer to "Replacing remote batteries" on page 60.

Video issues	What to do
Sound, but no picture	• Make sure the TV is on. • Make sure the TV is set to the correct Video Input to see the video from DVDs on the Bose® system. • Make sure a DVD is in the disc tray. • If the TV is connected to the media center using the HDMI cable: – Switch from one Video Input to another and then back to the original input. – Turn everything off, then: A. Turn on the TV and set the TV Video Input for the Bose system video. B. Turn on the 3•2•1® system and press DVD. – Turn off both the TV and the 3•2•1 system and then: A. Unplug the HDMI cable from both ends. B. Disconnect the power cables from both your TV and the 3•2•1 Acoustimass® module. C. Re-connect power to the television and to the Acoustimass module. D. When the 3•2•1 startup message disappears from the display, re-connect the HDMI cable. E. Turn on the TV first, then turn on the 3•2•1 system. – Disconnect the HDMI cable that connects the TV to the 3•2•1 media center. Reconnect the two using a Component cable, an S-Video cable, or the Composite cable provided with the system.
Incorrect picture for the selected source	• Make sure the TV is set to the correct Video Input.
Picture is black and white, flickers, gets dark, or rolls	• Check the video cable connections. • If the media center is connected to the TV using a Component cable, make sure the colored cable plugs (red, green, and blue) match the connector colors on the media center and on the TV. • Check the Video Format setting (NTSC or PAL) and change it. Refer to “Video options” on page 50.
Picture is not clear or is unstable	• Use the Settings menu to lower the output resolution of the system. Your 3•2•1 system sets its DVD video resolution to match the default that is communicated to it by the TV. You can experiment with other set-tings to see which one provides the best picture. HDTVs can accept different resolutions as input, and in some cases the highest number does not result in the best picture.

Disc issues	What to do
DVD or CD does not play ***Note:** If you are using the HDMI cable between the TV and media center, there are other possible solutions in “Sound, but no picture” on the previous page.*	• Make sure the Acoustimass® module power cord is inserted securely into the AC (mains) power outlet and into the power connector on the Acoustimass module. • Check to see if the Play symbol in the display is lit. • After pressing the CD•DVD button, wait a few seconds and press Play. • Make sure the disc is properly inserted (label-side up). • Eject the disc and try loading it again. • Clean the disc to remove fingerprints, dust, or dirt. Refer to “Keeping your discs clean” on page 41. • Try another disc. Some discs are defective and will not play. • Make sure the disc is compatible with the media center disc player. Also make sure the region codes match. Refer to “Checking for disc compatibility” on page 42.
Disc won’t eject	• Follow these steps: 1. Turn off the unit. 2. Unplug the Acoustimass module power cord from the outlet for 60 seconds, then reconnect it. This allows the unit to reset itself. 3. Before powering on, press and hold Eject on the media center.
Lock DVD password lost	• Enter the password 2673 to gain entry to the Lock DVD screen.

Storing issues	What to do
NO LABEL appears on the media center display when your music is playing or storing	• If the CD is a recent release, it may not be in the catalog of music installed in the system. The uMusic® system uses this catalog of information to identify and classify the CDs you store. When you are registered with Bose, a music information update CD is sent out periodically. Be sure to register your system if you have not. • For now, you can manually enter information using the Stored CD edit screen (Refer to “Choosing new settings” on page 54).
BUSY PROCESSING CDs appears on the media center display and the system won’t allow you to store more CDs	• Turn off the system, wait 30 minutes, and try again. To store another 10 CDs, turn the system off overnight before you begin storing again. ***Note:** When you store a CD, the tracks are first placed in a holding area with space for up to 10 CDs. If the holding area is full, the message appears. For more information about storing CDs, refer to the* INTRODUCING uMusic Intelligent Playback System *booklet provided with the system.*

For customer service

For additional help in solving problems, contact Bose® Customer Service. Refer to the address sheet included in the carton.

Limited warranty

This system is covered by a transferable limited warranty. Details of the limited warranty are provided on the *Product Registration Card* that came with your system.

Technical information

Power rating

USA/Canada: 120V∿ 60Hz 300W
International: 220-240V∿ 50/60Hz 300W
Dual voltage: 115/230V∿ 50/60Hz 300W

Antennas

FM 75Ω – external FM antenna
AM – external AM antenna

Maximum ambient temperature

104°F (40°C)

Dimensions

Media center: 3¼"H x 13¾"W x 10"D
(8.3 cm x 34.9 cm x 25.4 cm)

Remote control: 1⅛"H x 2½"W x 9"D
(3.0 cm x 6.5 cm x 22.9 cm)

Speakers: 2½"H x 5½"W x 4"D
(6.4 cm x 14 cm x 10.5 cm)

Acoustimass® module: 14½"H x 8¾"W x 19⅛"D
(36.7 cm x 22.2 cm x 48.5 cm)

Weights

Media center: 6.7 lb (3.0 kg)
Speakers: 1 lb (.45 kg) each
Acoustimass module: 23.3 lb (10.6 kg)

Finish

Media center: polymer
Speakers: polymer
Acoustimass module: polymer

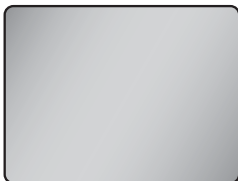
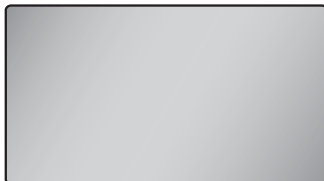
GLOSSARY

4:3 – See “Aspect ratio.”

16:9 – See “Aspect ratio.”

A

Analog audio – The sounds that we hear with our ears, unlike digital audio that is encoded as bits of information.

Aspect ratio – An expression for the width of the picture relative to the height. For example, if the aspect ratio is 4:3 (considered a normal screen), the shape of that picture is 4 units wide by 3 units high. The standard TV aspect ratios are 4:3 and 16:9 (called widescreen).

C

CD – The abbreviation for a compact disc that stores digitally encoded music that is read by the laser beam in a compact disc player. This provides high-quality playback.

Chapter – A main division of contents in a DVD title.

Coaxial cable – Can carry digital audio signals between a source device and the 3•2•1® system.

Component video – Also called YPbPr for its three-part video signals that include luminance and two color signals. Component video requires the use of a Component cable. This provides considerably better resolution than is possible from either Composite or S-Video signals.

Composite video – The simplest of video signals, which combines black and white with color information. Its low- resolution signal is compatible with the broadest range of televisions and other video components and requires a simple RCA video cable.

D

Digital audio – Audio in digital form, which is encoded as bits of information.

Dolby Digital – A means of encoding multi-channel audio, developed by Dolby Laboratories and accepted as an international standard.

DOLBY DIGITAL – The logo representing Dolby Digital.

DTS – An abbreviation for Digital Theater Systems. DTS encoding provides a type of multi-channel surround sound format used on certain CDs and many DVDs.

dts Digital Surround – The logo representing DTS.

DVD – An abbreviation most commonly known to mean digital video disc or digital versatile disc. A DVD looks like a CD but contains high-quality video and multi-channel audio for movies.

DVD-R, DVD-RW – Abbreviations for Recordable (R) and ReWriteable (RW) Digital Video (or Versatile) Disc (DVD). Data can be added to a DVD-R once only, and to a DVD-RW more than once.

DVD-ROM – The abbreviation for Read Only Memory (ROM) on a Digital Video (or Versatile) Disc (DVD), which allows no data to be added.

DVD video – A standard for storing and reproducing audio and video on DVD-ROM discs, based on MPEG video, Dolby Digital audio, and other proprietary data formats.

DVR – An abbreviation for Digital Video Recording (otherwise known as PVR for Personal Video Recording). With a hard drive, an electronic program guide, and internal processing, a DVR simplifies recording and playback of programs.

H

HDCP – An abbreviation for High-bandwidth Digital Content Protection. HDCP is a form of Digital Rights Management licensed by Digital Content Protection, LLC, to control digital audio and video content as it travels across Digital Visual Interface (DVI) or High-Definition Multimedia Interface (HDMI) connections. (It prevents unauthorized copying of programs.)

HDMI – An abbreviation for High-Definition Multimedia Interface. HDMI is a de-facto standard interface that delivers clear, all-digital audio and video via a single cable.

HDTV – An abbreviation for High-Definition TV, a digital television format that delivers sharper picture quality with more lines of resolution. HDTV offers a much better picture quality than standard television.

I

IR – An abbreviation for infrared. Pertains to the type of remote that sends/receives commands on an infrared light beam.

L

Letterbox – A video format that has an aspect ratio wider than 4:3 (refer to Aspect ratio) and is shown with black bars above and below the picture.

M

MP3 – This is a compressed audio format (MPEG-1 Layer III) that allows the recording of many hours of music on a single CD.

MPEG – An abbreviation for Moving Picture Experts Group, the committee of experts from the audio, video, and computer industries involved in setting standards for compression of moving images.

N

NTSC – An abbreviation for National Television System Committee and the label for its video format standard used for televisions in the U.S. and other countries.

O

Optical cable – Carries digital audio via optical fiber between a source device and your 3•2•1® system.

P

PAL – An acronym for the Phase Alternate Line video format used extensively in Western Europe.

PCM – An abbreviation for Pulse Code Modulation. A common form of digital audio signal.

Progressive scan – A video format that displays all lines of the picture frame in a single pass and refreshes the TV image 30 times per second. Not compatible with all video displays.

PVR – Refer to DVR.

R

RDS – A system that displays radio broadcast station and programming information. This feature is available on European systems only.

Resolution – The sharpness of a video image, signal, or display, generally described either in terms of lines of resolution or pixels.

S

SCART – A type of connector commonly found on consumer electronics products manufactured for use in Western Europe.

Screen ratio – See Aspect ratio.

Source – Any device that provides audio or video signals for use with the 3•2•1® system. The AUDIO OUT from such a device connects to the AUDIO IN on the media center

S-Video – A video signal that separates the black and white from the color information. S-Video provides higher resolution than Composite video, but not as high as Component video. This type of connection requires use of an S-Video cable.

T

Teletext – An information retrieval service provided by television broadcast companies in Europe and some other countries, not including the U.S.

Title – A main component of contents on a DVD. There can be several titles on a DVD, one of which may be a movie.

V

Video CD – A compact disc (CD) that contains video.

W

Widescreen – A TV having an aspect ratio of 16:9 with a picture shape that is 16 units wide by 9 units high. (Refer to Aspect ratio.)

Y

YPbPr – See Component video.

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DEVICE CODES

TV

888 .... 0264, 0412
A-Mark 0047, 0054, 0003, 0009, 0020, 0032, 0039, 0165
A.R. Systems ... 0556, 0037, 0455, 0352, 0374
Abex................ 0032
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AVP.................. 0000
Awa 0451, 0606, 0264, 0036, 0108, 0009, 0011, 0157, 0217, 0374, 1376
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Baihe 0264, 0009, 0412
Baile 0009, 0374, 0661

Brand	Codes
Baird	0037, 0109, 0179, 0208, 0217, 0343, 1196
Bang & Olufsen	0565, 0619, 1620
Baohuashi	0264, 0412
Baosheng	0009, 0817
Barco	0556, 0163
Basic Line	0556, 0037, 0668, 1037, 0218, 0455, 0009, 0163, 0217, 0282, 0339, 0374, 1163
Bastide	0217
Baur	0037, 0195, 0361, 0455, 0146, 0512, 0535, 0544, 0554
Baycrest	0032, 0046, 0186
Baysonic	0236, 0463, 0180
Bazin	0217
Beaumark	0017, 0178, 0030, 0019, 0179
Beijing	0812, 0264, 0226, 0009, 0208, 0374, 0412, 0661, 0817
Beko	0037, 0714, 0195, 1037, 0486, 0606, 0370, 0418, 0808
Belcor	0030, 0019
Bell & Howell	0054, 0017, 0154, 0093, 0016, 0179
Belson	0698
Belstar	1037
BenQ	1032, 1315, 1562, 1756
Beon	0037, 0218, 0032, 0039, 0163, 0418
Berthen	0668
Best	0370
Bestar	0037, 0370, 0374
Bestar-Daewoo	0374
Binatone	0217
Black Diamond	1909, 1037, 0614, 0753, 0820, 1163
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Blackway	0218, 0282
Blaupunkt	0195, 0036, 0455, 0170, 0200, 0327, 0535, 0554
Blue Sky	0556, 0037, 0714, 0668, 1037, 0487, 0218, 0455, 0282, 0499, 1254, 1314, 1363, 1916
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Boots	0009, 0217
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BPL	0037, 0208, 0282, 0896
Bradford	0180
Brandt	0625, 0714, 0560, 0109, 0287, 0335
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Brinkmann	0037, 0668, 0486, 0418, 0519
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Caihong	0009, 0817
Cailing	0748
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Candle	0030, 0039, 0046, 0056, 0186
Canton	0218
Capehart	0017, 0178, 0030, 0036, 0003, 0019, 0032, 0046, 00052, 0092
Capetronic	0030, 0003
Capsonic	0264
Carad	0668, 1037, 0610
Carena	0037, 0455
Carnivale	0030
Carrefour	0037, 0036, 0070
Carver	0054, 0170
Cascade	0037, 0009
Casio	0037
Cathay	0037, 0218, 0032, 0474
CCE	0037, 0217
Celebrity	0000
Celera	0765
Celestial	0767, 0820
Centrex	0706, 0780, 0826, 0891
Centrum	1037
Centurion	0037
Century	0247
CGE	0370, 0074, 0163, 0247, 0418
Changcheng	0051, 0264, 0009, 0374, 0412, 0661, 0817
Changfei	0009, 0374, 0817
Changfeng	0264, 0412, 0696, 0753, 0817
Changhai	0009, 0817
Changhong	0156, 0765, 0264, 0508, 0009, 0767, 0783, 0817, 0820, 1156
Chengdu	0009, 0817
Ching Tai	0003, 0009, 0092, 0179, 0474
Chun Yun	0000, 0180, 0003, 0009, 0033, 0092, 0179, 0474, 0700, 0843, 1150
Chunfeng	0264, 0009
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City	0009
Civet	0185
Clairtone	0185
Clarion	0180
Clarivox	0037, 0070, 0418
Classic	0030, 0019, 0056, 0092, 0499

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Clatronic	0037, 0714, 0264, 0370, 0218, 0009, 0217, 0247, 0371
Clayton	1037
CMS Hightec	0217
Colortyme	0047, 0054, 0017, 0060, 0178, 0030, 0018, 0019, 0032
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Concerto	0056
Concorde	0009
Condor	0037, 0264, 0370, 0009, 0247, 0282, 0411, 0418
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Conic	0178, 0032
Conrac	0808
Conrowa	0156, 0145, 0698, 0264, 0009, 0412, 0696, 0753, 1156
Contec	0180, 0037, 0036, 0009, 0157, 0185
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Cosmel	0037, 0009
Craig	0180, 0171, 0179, 0282
Crosley	0054, 0000, 0180, 0030, 0171, 0370, 0074, 0096, 00163, 0187, 0247
Crown	0093, 0180, 0053, 0037, 0714, 1037, 0486, 0487, 0606, 0712, 0370, 0412, 0418, 0339, 0208, 0672,0 0056, 0039, 0009
Crown Mustang	0672
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Daytek	0672, 1376
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Elin	0037, 0548, 0361, 0009
Elite	0037, 0218
Elta	0264, 0009, 0474
Emco	0247
Emerald	0178, 0177
Emerson	0047, 0017, 0154, 0451, 0236, 0463, 0180, 0150, 0178, 0171, 0037, 0714, 0668, 0195, 1909, 0486, 0361, 0370, 0036, 0282, 0371, 0623, 1394, 1911, 1928, 1929, 0280, 0247, 0185, 0179, 0177, 0170, 0146, 0135, 0111, 0070, 0044, 0039, 0038, 0032, 0019, 0012
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Ether	0030, 0003, 0009
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Fidelity	0171, 0037, 0361, 0264, 0163, 0217, 0371, 0412, 0423, 0474, 0512, 0544
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Finlux	0556, 0037, 0714, 0070, 0105, 0163, 0179, 0217, 0346, 0411, 0473, 0480, 0492, 0808, 1556
Firstar	0236, 0009, 0033
Firstline	0556, 0037, 0714, 0668, 1037, 0361, 0009, 0208, 0217, 0247, 0374, 0411, 0544, 0808, 1363
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Saige 0009, 0817
Saisho 0264, 0009, 0011, 0033, 0163, 0177, 0217, 0544
Saivod 0037, 0668, 1037, 0712, 1163, 1556, 1982
Sakai 0163
Sakyno 0455
Salora 0548, 0361, 0163, 0208, 0480
Salsa 0335
Sampo 0047, 0154, 0093, 0178, 0030, 0171, 0036, 0650, 1756, 1755, 0762, 0700, 0474, 0092, 0052, 0039, 0032, 0009
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Sandra 0217
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Sanky 0060, 0030, 0019, 0038, 0039, 0280
Sansei 0451, 0092
Sansui 0463, 0060, 0030, 0706, 0037, 0714, 0455, 1935, 1929, 1911, 1904, 1537, 1531, 0826, 0753, 0729, 0602, 0371, 0165, 0019
Santon 0009
Sanyo 0047, 0054, 0154, 0000, 0156, 0463, 0180, 0145, 0171, 0037, 0264, 0370, 0036, 0108, 0508, 0412, 0424, 0474, 0544, 0704, 0798, 0799, 0893, 1755, 1208, 1142, 1150, 1154, 1179, 0381, 0376, 0339, 0280, 0217, 0208, 0170, 0163, 0159, 0157, 0146, 0105, 0088, 0046, 0011, 0009
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Scott	0236, 0180, 0178, 0030, 0019, 0039, 0177, 0179, 1189
Sears	0047, 0054, 0017, 0154, 0000, 0156, 0051, 0093, 0060, 0053, 0178, 0030, 0171, 0166, 0037, 0036, 0159, 0165, 0179, 0208, 0280, 1904, 1926, 0146, 0135, 0096, 0056, 0055, 0039, 0038, 0035, 0032, 0024, 0021, 0020, 0019, 0018, 0016
Seaway	0634
Seelver	1037
SEG	0037, 0668, 1037, 0487, 0264, 0218, 0036, 0009, 0217, 0247, 0362, 1163
SEI	0037, 0163, 0177, 0544
Sei-Sinudyne	0037, 0544
Seimitsu	0019
Seleco	0264, 0163, 0346, 0362, 0371, 0411, 1351
Semivox	0236, 0463, 0180
Semp	0156, 1356
Sencora	0009
Sentra	0035
Serie Dorada	0156, 0180, 0178, 0030, 0019, 0056
Serino	0093, 0610, 0455
Shancha	0264, 0412, 0817
Shanghai	0264, 0226, 0009, 0208, 0412, 0817
Shaofeng	0145, 0817

Brand	Codes
Sharp	1393, 0818, 0093, 1602, 0054, 0180, 0053, 0030, 0668, 0036, 0650, 0653, 1193, 0688, 0689, 0720, 0787, 0851, 1165, 1917, 0491, 0474, 0386, 0256, 0200, 0179, 0165, 0157, 0039, 0032, 0019, 0009
Shen Ying	0003, 0009, 0092, 0179, 0474
Shencai	0145, 0264, 0009, 0412
Sheng Chia	0093, 0236, 0009, 0033, 0179, 0474, 1150
Shenyang	0264, 0009, 0696, 0753, 0817
Sherwood	0009
Shintoshi	0037
Shivaki	0178, 0556, 0037, 0374, 0443
Shogun	0019
Shorai	0179
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Siam	0037
Siarem	0163
Siemens	0145, 0037, 0195, 0032, 0146, 0157, 0200, 0327, 0535, 0554
Siera	0556, 0037, 0012
Siesta	0370
Signature	0047, 0093, 0030, 0016, 0165, 0179, 0187
Signet	1262
Silva	0037, 0361, 0648
Silva Schneider	0037, 1556
Silvano	0587

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Silver	0361, 0036, 0455, 0019, 0179
SilverCrest	1037
Simpson	0178, 0030, 0011, 0186, 0187
Singer	0060, 0037, 0433, 0009, 0092, 0247, 0335, 0371, 0891, 1537
Sinotec	0773
Sinudyne	0037, 0361, 0163, 0177, 0544
Skantic	0163
SKY	0037, 0282, 0880
Sky Brazil	0880
Sky-North	0037
Skygiant	0180
Skysonic	0696, 0753
Skyworth	0748, 0037, 0698, 0264, 0009, 0696, 0753, 0817, 0825
Sliding	0865, 0880
SLX	0668
Smaragd	0487
Soemtron	0865, 1298
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Solavox	0037, 0548, 0361, 0032, 0163
Sole	0813
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Soniko	0037
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Sonoko	0037, 0264, 0009, 0217, 0282

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Sonolor	0548, 0361, 0163, 0208, 0282
Sontec	0037, 0370, 0009
Sony	0000, 0834, 1599, 0017, 0154, 1100, 0150, 0053, 0037, 1505, 0036, 0650, 1925, 1904, 1751, 1685, 1651, 1619, 0011, 1317, 1300, 1167, 0074, 0810, 0080, 0632, 0353, 0157, 0111
Sound & Vision	0218, 0374
Soundesign	0180, 0178, 0019, 0056, 0179, 0186
Soundwave	0037, 0032, 0418
Sowa	0156, 0051, 0060, 0178, 0036, 0226, 0092, 0474, 1150
Soyea	0773
Spectra	0009
Spectravision	0156, 0178, 0159, 0179, 0186
Spectricon	0003, 0032
Spectroniq	1498
Squareview	0171
SR2000	0154, 0171
Ssangyong	0009, 0032
SSS	0180, 0019
Stag	0032
Staksonic	0009
Standard	0037, 1037, 0218, 0009, 0217, 0374
Standard Comps	0218, 0009
Starlite	0236, 0180, 0037, 0264, 0009, 0019, 0163
Stenway	0218, 0282
Stern	0264, 0163, 0411
Stevison	1982

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Strato	0037, 0264, 0009
Strong	1149, 1163
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Stylandia	0217
Sunkai	0610, 0487, 0218, 0455, 0355, 0865
Sunstar	0037, 0264, 0009, 0371
Sunwatt	0455
Sunwood	0037
Superla	0217
Superscan	0093, 0864
Supersonic	0455, 0009, 0208, 1189
SuperTech	0556, 0037, 0218, 0009
Supra	0178, 0009, 0039, 0056, 0374
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Susumu	0218, 0287, 0335, 0474
Sutron	0009
SV2000	0054
SVA	0748, 0587, 0768, 0865, 0870, 0871, 0872
Svasa	0455
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Sydney	0217
Sylvania	1271, 0047, 0054, 0154, 0000, 0051, 0178, 0030, 0171, 0037, 0036, 0381, 1314, 1394, 1904, 1926, 1931, 0187, 0186, 0179, 0159, 0096, 0092, 0056, 0024, 0020
Symphonic	0000, 0180, 0178, 0171, 0179, 1904
Synco	0000, 0451, 0093, 0060, 0178, 0036, 0092, 0474
Syntax	1144, 1240, 1331
Sysline	0037
T+A	0447
Tacico	0178, 0009, 0092, 0179, 0474, 1150
Tai Yi	0009, 1150
Taishan	0009, 0374, 0817
Talent	0178
Tandberg	0361, 0109, 0367
Tandy	0093, 0218, 0039, 0163, 0165, 0217, 0247
Tashiko	0036, 0650, 0032, 0033, 0092, 0146, 0163, 0170, 0217, 1150
Tatung	0054, 0154, 0000, 0156, 0051, 0060, 0037, 0036, 0038, 0033, 0055, 0011, 0009, 0003, 0217, 0474, 1150, 1156, 1248, 1254, 1556, 1756
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Tec	0037, 0009, 0163, 0217, 0247, 0335, 0474
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Technics	0054, 0250, 0051, 0556, 0650, 0226, 0046, 0055
TechniSat	0556
Technisson	0714, 1289
Technol Ace	0179
Technosonic	0556, 0499
Technotrend	1531
Technovox	0030, 0217
Techview	0847
Techwood	0250, 0051, 0060, 0003, 0055, 0056, 1163
Tecnimagen	0556
Teco	0051, 0093, 0178, 0264, 0218, 0036, 0653, 0009, 0092, 0280, 0474
Tedelex	0698, 0606, 0009, 0208, 0217, 0418, 0891, 1537
Teiron	0009
Tek	0820
Teknika	0054, 0463, 0180, 0150, 0060, 0178, 0016, 0019, 0032, 0039, 0046, 0056, 0092, 0179, 0186
Teleavia	0287, 0343
Telecolor	0017
Telecor	0037, 0218, 0163, 0217, 0394
Telefunken	0702, 0037, 0625, 0714, 0560, 0486, 0698, 0712, 0587, 0498, 0346, 0343, 0335, 0287, 0109, 0074, 0056, 0753, 0754, 0820, 0896, 1556
Telefusion	0037
Telegazi	0037, 0264, 0218, 0163
Telemeister	0037
Telesonic	0037
Telestar	0556, 0037, 0009
Teletech	0037, 0668, 1037, 0009, 0247
Teleton	0036, 0179, 0186, 0217
Televideon	0163
Teleview	0037
Tempest	0264, 0455, 0009
Tennessee	0037
Tensai	0037, 1037, 0218, 0009, 0105, 0217, 0247, 0371, 00374
Tenson	0009
Tera	0030, 0092, 0466, 0474
Tevion	0556, 0037, 0714, 0668, 1037, 1137, 0648, 0767, 0808, 1248, 1259, 1289, 1298, 1498, 1556
Texet	0218, 0009, 0217, 0374
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ThemeScene	0887
Thomas	0047, 0178, 0019, 0039, 0056, 1904
Thomson	0047, 1447, 0037, 0625, 0560, 0109, 0287, 0335, 0343
Thorn	0037, 0361, 0264, 0036, 0035, 0074, 0109, 0163, 0335, 0343, 0499, 0512, 0535
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Vestel 0037, 0668, 1037, 0217, 1163
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Victor 0250, 0053, 0036, 0650, 0653, 0376
Videocon.......... 0037, 0508
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Waltham 0037, 0668, 1037, 0109, 0217, 0418, 0443
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Watson 0037, 0714, 0668, 1037, 0218, 0009, 0163, 0394, 0519, 1376
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Welltech........... 0714
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Welton 0178, 0019
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Westinghouse... 0885, 0000, 0451, 0003, 0889, 0890, 1092, 1282, 1577
Wharfedale....... 0556, 0037, 0519, 0860, 0891, 0896, 1556
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Windstar	0282
Windy Sam	0556
Wintel	0714
World	0451, 0236, 0463, 0180
World-of-Vision	0865, 0877, 0880, 0890, 1217, 1289, 1298
Worldview	0455
Wyse	1365
Xenius	0634, 0661
Xiahua	0698, 0264, 0009, 0412, 0773, 0817
Xianghai	0009
Xiangyang	0264, 0412
Xiangyu	0009
Xihu	0264, 0412, 0817
Xinaghai	0412
Xingfu	0009
Xinghai	0264
XLogic	0698, 0860
Xoro	1196, 1217
XR-1000	0154, 0180, 0171, 0016, 0096, 0179
Xrypton	0037
Yamaha	0030, 0650, 0019, 0769, 0797, 0833, 0838, 0839, 1576
Yamishi	0037, 0218, 0455, 0217, 0282
Yapshe	0250
Yingge	0009
Yokan	0037
Yoko	0037, 0264, 0370, 0218, 0009, 0217, 0247, 0339
Yonggu	0009
Yorx	0030, 0218
Youlanasi	0817
Yousida	0009
Ytawai	1531
Yuhang	0009
Zanussi	0264, 0163, 0217
Zenith	0047, 0017, 0000, 0093, 0463, 1265, 0812, 0178, 0030, 1145, 0145, 0171, 0037, 1909, 0146, 0092, 0039, 0016, 1305, 1904, 1911, 1929
Zenor	0339
ZhuHai	0009, 0374
Zonda	0698, 0003

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3M	0033
A-Mark	0144, 0277, 0008, 0040
ABC	0237, 0014, 0003, 0008, 0007, 0011, 0013, 0017, 0033
Accuphase	0014, 0003, 0007, 0011, 0013, 0017
Acorn	0237
Action	0237
Active	0237
ADB	1082, 1230, 1269, 1927
Aichi Denshi	1512
Aim	0015
Allegro	0153, 0315
American	0060
Americast	0899
Amstrad	1222
Archer	0237, 0153, 0797
Auna	0277, 1230, 1269
Austar	0276, 0012
BCC	0276
Bell & Howell	0014
Bell South	0899
Birmingham Cable Comms	0276
British Telecom	0003
Cable & Wireless	1068
Canal+	0443
Century	0008, 0153, 0315
Citation	0017
Citizen	0153, 0242, 0315
Clearmaster	0883
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Colour Voice	0025, 0031
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Comtec	0019
Comtronics	0040, 0060
Contec	0019
Cool Box	0883
Coolmax	0883
Curtis Mathes	0015, 0242
Daeryung	0877, 1877, 0477, 0277, 0008
Dalvi	1522
Digeo	1187
Digi	0637
Director	0476
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DX Antenna	1500, 1502
Eastern	0002, 0418
Emerson	0014, 0015, 0797
Encon	0008
Everquest	0015, 0040
Fastweb	1630
Filmnet	0443
Focus	0400
Force	1798
Fosgate	0276
Foxtel	1222
France Telecom	0817
Freebox	1482
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Funai	0019
Galaxi	0008
Garrard	0153
GC Electronics	0040
GE	0237, 0144, 0021
Gehua	0476
Gemini	0015, 0070, 0242, 0400, 0797
General Instr.	0476, 0810, 0014, 0276, 0003, 0012, 0011, 0015, 0024
Getterson	0040
Gibralter	0003
GMI	0015, 0797, 0883
Golden Channel	1110
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Goodmind	0797
Hamlin	0009, 0273, 0015
Hitachi	0009, 0014, 0003, 0008, 0011, 0033
Houston	0011
Humax	1813
Hytek	0007
Hytex	0007
Insight	0476, 0810
Jasco	0015, 0153, 0315
Jebsee	0014, 0400
Jerrold	0476, 0810, 0014, 0276, 0003, 0012, 0011, 0015, 0024, 0031
Kabel Deutschld	1981
Kabelvision	0003

Kloss	0277
KNC	0008
Kuang Yu	0024
Leon	0015
LG	0144, 0040
Macab	0817
Macom	0033
Madritel	1230
Magnavox	0014, 0797
Maspro	1510
Matav	1082
Melita	0003
Mellenium	0153
Memorex	0000
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MNET	0019, 0443
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Novaplex	0277, 0008, 0017
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Oak	0019, 0007, 0017
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Optimus	0021
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Pace	0877, 1877, 0237, 1068, 1060, 0008, 1577
Panama	0107, 0021
Panasonic	0000, 0144, 0107, 0008, 0021, 0040, 0375, 1488
Panther	0637
Paragon	0000, 0525, 0008
Penney	0000, 0637
Philips	0317, 0817, 0013, 0025, 0031, 0060, 0153, 0242, 0290, 1305
Pioneer	0877, 1877, 0144, 0533, 0023, 1021, 1500
Popular Mechs	0400
Prism	0012, 0013
Pulsar	0000, 0040
Pulser	0040
PVP Stereo VM	0003
Quasar	0000
R-Line	0040
RadioShack	0015, 0153, 0315, 0797, 0883
RCA	1256, 0021, 0060, 0797
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Regal	0279, 0273, 0276
Regency	0002
Rembrandt	0011, 0040, 0070, 0153
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Samsung	0000, 0144, 1060, 0003, 0023, 0040, 0070, 1666
Satbox	0375
Scientific Atlanta	0877, 1877, 0477, 0237, 0000, 0003, 0277, 0008, 0012, 0017, 0021, 0025, 1510
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Signal	0011, 0015, 0040
Signature	0011
SL Marx	0040
Sony	1006, 1460
Sprucer	0144, 0021
Starcom	0014, 0003, 0015
Stargate	0014, 0015, 0040, 0797
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Starquest	0015
Storm	0637
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Sumitomo	1500, 1503, 1504
Supercable	0276
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Tadiran	0040
Tele+1	0443
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Telenet	1920
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Telewest	1068
Telsey	1630
Thomson	1256, 1110, 1582
Time Warner cbl	1877
Timeless	0040, 0418
Tocom	0019, 0012, 0013
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Toshiba	0000, 1509
Trans PX	0276, 0153, 0315
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Tusa	0015
TV Comm	0019
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Unika	0153
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United Cable	0014, 0276, 0003, 0011
Universal	0153, 0315
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Digitrex	0672, 1004, 1056, 1100
Digix Media	0826
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DMTech	0783, 1072
Dragon	0831
DreamX	1151
DSE	0833, 1152, 1483, 1730
DTS	0799
Dual	0651, 0730, 0831, 0790, 0665, 0675, 0713, 0779, 0783, 1023, 1068, 1085, 1436
Durabrand	1003, 0831, 0713, 1023, 1127, 1502
DVD2000	0521
DVX	0768
E:max	1233, 1321
EagleTec	0714
eBench	1152
ECC	0730
Eclipse	0723, 0751
Electrohome	1003, 0893
Elfunk	0713, 0850, 0884
Elin	0770
Elite	1152
Ellion	0850, 1421
Elta	0672, 0770, 0690, 0788, 0850, 1051,

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ENTERprise 0591
Entivo 0503, 0539
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EuroLine 0675, 0788, 1115, 1233, 1351
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Ferguson 0651, 0695, 0713, 0884, 0898, 1730
Finlux 0672, 0591, 0741, 0770, 0751, 0783, 1165
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Firstline 0651, 0713, 0799, 0843, 0869, 1530
Fisher 0670
Funai 0695, 0675, 1268, 1334
Fusion 0862
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GoldStar 0591, 0741, 0801, 0869
Goodmans 0651, 0730, 0790, 0690, 0713, 0723, 0783, 0833, 0879, 1004, 1140, 1177, 1316, 1423, 1530, 1730
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Gran Prix 0831, 0898
Grandin 0713, 0716, 1173, 1233
Greenhill 0717
Grundig 0539, 0651, 0551, 0695, 0790, 0670, 0705, 0713, 0775, 1004, 1036, 1128, 1177, 1436, 1730
Grunkel 0770, 0831, 0790, 1316
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H & B 0713, 0818, 0841, 0850, 1233, 1421
Haaz 0751, 1152
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Hanseatic 0741, 0790, 0783
Harman/Kardon 0582, 0702
HCM 0788
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Helios 2080
Henss 0713
Himage 1089
HiMAX 0843
Hitachi 0573, 0664, 0695, 0665, 0713, 0857, 1247, 1664
Hiteker 0672

Hoeher 0651, 0831, 0713, 0826, 1004, 1224
Home Elec. 0770, 0730
Home Tech Indus. 1107, 1224
Hoyo 0665
Humax 0646, 1588
Hyundai 0766, 0783, 0850, 1061, 1228
I-O Data 1405
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Ingelen 0788
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Initial 0839, 0717, 1472
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Integra 0571, 0627, 1634
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IRT 0783, 1489
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Jamo 1036
Jaton 0665, 1078
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JDB 0730
JDV 1367
Jeken 0699
Jensen 1016
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JMB 0695
JNC 0672
JSI 1423
JVC 0503, 0539, 0558, 0623, 0867, 1164, 1241, 1275, 1597, 1602
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Karcher 0783
Kawasaki 0790
Kendo 0672, 0831, 0699, 0713
Kennex 0770, 0713, 0898
Kenwood 0490, 0534, 0682, 0737, 1063
Kiiro 0770
King DHome 0799
Kingavon 0818
Kiss 0665, 0841, 1523
KLH 0815, 0717, 0790, 1020, 1149, 1261
Kloss 0533
Koda 1230
Konka 0711, 0719, 0720, 0721
Koss 0651, 0769, 0896, 1061, 1423
Kreisen 1421
KXD 0857, 1321
Landel 0826
Lasonic 0627, 0798, 0789, 1173
Lawson 0768, 0716
Lecson 1533
Leiker 0872
Lenco 0651, 0770, 0699, 0713, 0778, 1165, 1177
Lenoir 1228
Lenoxx 0690, 0838, 1127
Lexia 0768, 0699
LG 0591, 0741, 0790, 0801, 0869, 1526
Lifetec 0651, 0831, 1347
Limit 0768, 0716, 1104
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Loewe	0539, 0741, 0511, 0885
Logik	0713, 0884
Logix	0705, 0783
Luker	1367
Lumatron	0741, 0695, 0705, 0713, 0833, 1115, 1321
Lunatron	0741
Luxman	0573
Luxor	0713, 1004, 1730
Magnasonic	0651, 0675, 0769
Magnavox	0503, 0539, 0646, 0675, 0713, 0821, 0885, 1140, 1177, 1268, 1472, 1506
Magnex	0723, 1165, 1489
Magnum	1436
Majestic	1107, 1345
Malata	0782, 1159
Manhattan	0705, 0713
Marantz	0503, 0539, 0675, 1627
Mark	0713
Marquant	0770
Matsui	0672, 0651, 0695, 0713, 0884, 1004, 1316, 1730
Maxdorf	0788
Maxent	1347
Maxim	0713, 0872, 1242, 1367
Maya	1345
MBO	0730, 0690, 1730
McIntosh	1533, 1273
MDS	0713, 0778
Mecotek	0770
Medion	0651, 0630, 0831, 0652, 0716, 0758, 0783, 0879, 1006, 1107, 1165, 1270, 1345, 1347, 1423
MEI	0790
Memorex	0695, 0831, 0690, 1270
Metronic	0690
Metz	0525, 0571, 0713
MiCO	0723, 0751, 1223
Micromedia	0503, 0539
Micromega	0539, 1005
Microsoft	0522, 1708, 2083
Microstar	0831
Minato	0752
Minax	0713
Minerva	0705
Minoka	0770, 1115
Minowa	1165
Mintek	0839, 0717, 1472
Mirror	0752, 0879
Mitsubishi	1521, 0521, 0713, 1403
Mizuda	0770, 0818, 0857, 1451
Momitsu	1082
Monyka	0665
MPX	0843
MTlogic	1265
Mustek	0730, 1730
Mx Onda	0651, 0751, 1223
Myryad	0894
Mystral	0831
NAD	0741, 0692
Naiko	0770, 1004, 1367
Nakamichi	1222
Narita	1367
NEC	0741, 0692, 0785, 0869, 1404
Nesa	0717, 1603
Neufunk	0665
NeuNeo	0509, 1454
Nevir	0770, 0831, 1197
Next Base	0826
NexxTech	1402
NFREN	0826
Nikenny	1089
Nintaus	1051
Norcent	1003, 0719, 0872, 1107, 1265, 1457
Nordmende	0831, 1316
Noriko	0752
Nowa	0843
Nu-Tec	0516, 1228
Okano	0752
Olidata	0672
Omni	0690, 0698, 0778, 0782, 0833, 0838, 0862, 1104
Onix	0838
Onkyo	0503, 0627, 0792, 1417, 1418, 1612, 1627
Oopla	1158
Oppo	1224, 1525
Optim	0843
Optimus	0525, 0571
OptoMedia Elec.	0896
Orava	0818
Orbit	0872
Orion	0695, 1128, 1233, 1419
Oritron	0651
Ormond	0713
Otic	0826, 1455
P&B	0818, 1451
Pacific	0695, 0831, 0768, 0790, 0713, 0759, 0804
Packard Bell	0831
Palladium	0695, 0713, 0779
Palsonic	0672, 0835, 0852, 1056, 1321
Panasonic	0503, 0490, 0571, 0632, 0703, 1010, 1011, 1282, 1362, 1462, 1490, 1579, 1762, 1641
Panda	0717, 0789
Paramount Picts	0779
peeKTon	0898, 1224
Philco	0790, 0690, 0788, 0862
Philips	0503, 0539, 0646, 0675, 0854, 0885, 1158, 1260, 1267, 1340, 1354, 1506, 1755, 2056
Philo	1345
Phonotrend	0699, 1165, 1177
PianoDisc	1024
Pioneer	0490, 0525, 0571, 0142, 0631, 0632, 0638, 1460, 1531, 1571, 1900
Playgo	1265
Plu2	0850
Pointer	0784
Polaroid	1020, 1061, 1086, 1245, 1316, 1478, 1480, 1482
Polk Audio	0539
Portland	0770
Powerpoint	0758, 0872, 1005
Presidian	0675, 1072, 1738
Prima	0766, 1016, 1228
Prima Elec	0766
Primare	1467
Princeton	0674
Prinz	0831

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Prism	0831, 0705, 1089
Pro2	1107, 1345
ProCaster	1004
Proceed	0672
Proline	0672, 0651, 0710, 0833, 1004, 1068, 1483
Proscan	0522
Proson	0713
Prosonic	0699, 0752, 1169, 1441
ProVision	0730, 0699, 0778, 1107, 1163, 1321
Pye	0539, 0646
QONIX	1051, 1177
Qwestar	0651
Radionette	0741, 0869
RadioShack	0571
Raite	0665
RCA	0522, 0571, 0717, 0790, 0769, 0822, 1013, 1022, 1132, 1193, 1769
Realistic	0571
REALmagic	0674
REC	0490, 0766
Recco	0698
Redstar	1003, 0770, 0759, 0763, 0788, 0898, 1107, 1345
Relisys	1347
Reoc	0768, 0752
Revoy	0699, 0841
Rex	0838
Richmond	1233
Rio	0869
RJTech	1360
Roadstar	0672, 0730, 0690, 0699, 0713, 0818, 0833, 0879, 0898, 1051, 1177, 1227, 1446
Rocksonic	0789
Ronin	0710, 0872
Rotel	0558, 0623, 1178
Rowa	0717, 0516, 0759, 0823, 0872, 1004
Rownsonic	0789
S&V	1165
Saba	0651, 0551, 0769
Sabaki	0798
Saivod	0831, 0759, 1367
Salora	0741, 1446
Sampo	0698, 0752, 1321, 1347, 1501
Samsung	0490, 0573, 0744, 0199, 0820, 0899, 1044, 1075, 1635
Sansui	0784, 0695, 0768, 0716, 0751, 0763, 1051, 1228, 1230, 1316
Santosh	1115
Sanyo	0695, 0670, 0675, 0713, 0873, 1228, 1334
Scan	0705, 0835, 0850
ScanMagic	0730, 1730
Schaub Lorenz	0770, 0788, 1115, 1151, 1165
Schneider	0539, 0646, 0651, 0831, 0790, 0705, 0713, 0779, 0783, 0788, 0804, 0869, 1367
Schwaiger	0752
Scientific Labs	0768
Scott	0672, 0651, 1005, 1036, 1233, 1423
Seeltech	1224, 1451
SEG	0798, 0665, 0713, 0763, 0872, 0884, 1173, 1483, 1530
Semp	0503
Sensory Science	1158
Shanghai	0672
Sharp	0630, 0675, 0713, 0752, 1256, 1419, 1642
Sharper Image	1117
Sherwood	0717, 0741, 0770, 0633, 1043, 1077
Shinco	0717, 1472
Shinsonic	0533, 0839
Siemssen	1382
Sigma Designs	0674
Sigmatek	1005, 1224
Siltex	1224
Silva	0788, 0898
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SilverCrest	1152
Simaudio	0885
Singer	0768, 0690, 0716, 0751
Sinudyne	1316
Sistemas	0672
Skantic	0539, 1003, 0713
Skymaster	0730, 0768
Skysonic	0766
Skyworth	0766, 0898
Sliding	1115
Slim Art	0784
SM Electronic	0730, 0768, 0690, 1152
Smart	0705, 0713
Sonai	0755
Sonashi	0831, 0716
Sonic Blue	0573, 0715, 0783, 0869, 1099
Sony	0533, 1533, 0864, 0573, 0630, 1017, 1033, 1069, 1070, 1431, 1432, 1433, 1516, 1536, 1548, 1633
Sound Color	1233
Sound Mobile	1298
Soundmaster	0768
Soundmax	0768
Soundwave	0783
Sova	1122
Spectra	0872
Standard	0651, 0831, 0768, 0788, 0898
Star Clusters	1152, 1227
Starlogic	1005
Starmedia	0818, 1005, 1224
Stevison	1367
Strong	0713
Sungale	1074, 1532
Sunkai	0770, 0850
Sunstech	0831, 1072
Sunwood	0788, 0898
Superscan	0821
Supervision	0768, 1152
Supratech	0893
SVA	0672, 0717, 0752, 0860, 1105
Sylvania	0630, 0675, 0821, 1268
Symphonic	0675, 0821, 1268, 1334
Synn	0768
TAG McLaren	0894
Tandberg	0713
Tangent	1321
Targa	1227
Tatung	0770
Tchibo	0741

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Tec	0898
Technica	1367
Technics	0490, 0703
Technika	0770, 0831, 1115, 1165, 1489
Technisson	1115
Technosonic	0730, 1051, 1115
Techwood	0692, 0713, 1530
Tedelex	0768, 0690, 1004, 1228
Telefunken	0790, 0758, 0789, 0833, 1483
Teletech	0768, 0713
Tensai	0651, 0770, 0690
Terapin	1031
Tevion	0651, 0798, 0768, 0652, 0833, 0898, 1036, 1227, 1347, 1382, 1483, 1730
Theta Digital	0571
Thomson	0522, 0551, 0511
Tiny	1489
Tivo	1503, 1588
Tokai	0784, 0790, 0665, 0698, 0788, 0898
Tokaido	0698
Tokiwa	0716
Tom-Tec	0789
Top Suxess	1224
Toshiba	0503, 0573, 0539, 0695, 1045, 1154, 1503, 1510, 1588, 1769
Trans Continens	0826
TRANS-conts	0831, 0826, 0872, 1165, 1321, 1327
Transonic	0730, 1165
Tredex	0799, 0800, 0803, 0804, 0843
TruVision	0857, 1451
TSM	1224
TYT	0705
Umax	0690, 1151
Unimax	0770
United	0695, 0730, 1489, 1446, 1367, 1351, 1228, 1173, 1165, 1152, 1115, 1072, 0884, 0826, 0788, 0713, 0699, 0675
Universum	0591, 0741, 0790, 0713, 0779, 0869, 1227, 1530
Uptek	0763
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Urban Concepts	0503, 0539
US Logic	0839
V	1064, 1126, 1226
Valor	1298
Venturer	0790
Vestel	0713, 0884, 1530
Vialta	1509
Victor	1241, 1597
Vieta	0705, 1265
Viewmaster	0862, 1224
Vizio	1064, 1126, 1226
Vocopro	1027, 1360
Voxson	0730, 0831, 0690
Vtrek	1228
Waitec	1151, 1224, 1233
Walkvision	0717
Waltham	1530
Welkin	0831
Wellington	0713
Weltstar	0713
Wesder	0699
Wharfedale	0790, 0698, 0751, 0752
Wilson	0831, 1233
Windsor	0713
Windy Sam	0573
WIZE	1115
Woxter	1005, 1151, 1224
Xbox	0522, 1708, 2083
Xenius	0790
XLogic	0768, 1152, 1228
XMS	0770, 0788
Xoro	1173, 1183
Xwave	1001
Yakumo	0652, 1004, 1056
Yamada	0652, 0872, 1004, 1056, 1151, 1158, 1416, 1489
Yamaha	0490, 0539, 0646, 0545, 1282, 1354
Yamakawa	0665, 0710, 0872, 1104, 1489
Yukai	0730, 1730
Zenith	0503, 0591, 0741, 0869
Zennox	1265
Zeus	0784
Zoece	1265

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Brand	Codes
A-Mark	0037, 0240, 0000, 0278, 0046
ABS	1972
Accent	0072
Admiral	0060, 0048, 0039, 0047, 0104, 0121, 0209, 0020, 0062, 0065, 0479
Adventura	0037, 0240, 0000
Adyson	0072
Aiko	0278
Aim	0278, 0348, 0642, 0020
Aiwa	0037, 0032, 0000, 0209, 0041, 0348, 0307, 0352, 0124, 0479, 0742, 1137, 1284, 1291, 1332, 1336
Akai	0037, 0240, 0041, 0348, 0642, 0352, 0315, 0020, 0053, 0061, 0175, 0242
Akiba	0072
Akitan	0295
Akura	0041, 0072, 0271
Alba	0081, 0000, 0209, 0072, 0278, 0348, 0352, 0315, 0020, 0295
Alienware	1972
Allegro	0039, 1137
Allorgan	0240
Allstar	0081
Ambassador	0020
America Action	0278
American High	0035, 0081
Amoisonic	0479
Amstrad	0000, 0072, 0278
Anam	0162, 0037, 0240, 0278, 0579, 1037
Anam National	0162, 1562, 0454, 0579, 1162
Anitech	0072
Ansonic	0000

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Aristona............ 0081
ASA.................. 0037, 0081
Asha................. 0240
Astra 0035, 0240, 0051
Asuka 0037, 0081, 0000, 0072, 0038
Audio-Technica 0058
Audiolab........... 0081
Audiosonic 0278
Audioton........... 0020
Audiovox 0037, 0278, 0038, 0054
AVA Tech. 0615
Avis 0000, 0072
AVP 0000, 0352
Awa 0037, 0043, 0278, 0642, 0075, 0579
Baird 0000, 0104, 0041, 0278, 0046
Basic Line 0104, 0072, 0278, 0020, 0046
Beaumark......... 0240
Beko................. 0104
Bell & Howell.... 0035, 0048, 0039, 0000, 0104, 0046, 0479
Bestar 0278, 0020
Black Diamond. 0642
Black Panther... 0278
Blaupunkt 0162, 0081, 0034, 0227, 0513
Blue Sky........... 0037, 0209, 0072, 0278, 0348, 0642, 0352, 0742, 1137
Bondstec.......... 0072, 0020
BPL 0046
Brandt 0041, 0320
Brandt Elec. 0041
Brinkmann 0209, 0348
Broksonic 0184, 0121, 0209, 0002, 0348, 0208, 0211, 0295, 0361, 0479, 1479, 1815
Bush 0081, 0000, 0209, 0072, 0278, 0348, 0642, 0352, 0315, 0742
Calix 0037
Candle 0037, 0038
Canon 0035, 0034
Capehart........... 0002, 0020, 0062
Carena 0081, 0209
Carrefour 0045
Carrera............. 0240
Carver 0035, 0081
Casio 0000
Cathay 0278
Catron 0020
CCE.................. 0072, 0278
Centrum............ 0593
CGE.................. 0000, 0041
Changhong 0048, 0081
Cimline 0209, 0072
Cineral 0278
CineVision......... 1137
Citizen 0035, 0037, 0240, 0000, 0209, 0278, 0036, 0479, 1278
Classic.............. 0037
Clatronic 0000, 0072, 0020, 1593
Colortyme 0060, 0035, 0045, 0278
Colt................... 0000, 0072
Combitech 0352
Condor 0278, 0020
Craig 0037, 0047, 0240, 0072, 0271
Criterion 0000, 0072
Crosley............ 0035, 0081, 0000, 0149, 0110
Crown 0037, 0072, 0278, 0020, 0271
Curtis Mathes .. 0060, 0035, 0162, 0240, 0000, 0041, 0278, 0432, 0277, 0454, 0643, 0760, 1035
Cybernex 0240, 0051
CyberPower..... 1972
Cyrus 0081
Daewoo 0037, 0045, 0104, 0209, 0278, 0642, 0352, 0020, 0046, 0210, 0212, 0368, 0561, 0844, 1137, 1278
Dansai 0072, 0278
Dantax 0352
Daytron 0037, 0278, 0020
De Graaf.......... 0048, 0081, 0042, 0104, 0046
Decca 0081, 0000, 0067, 0209, 0041, 0352, 0008
Degraff 0048, 0081, 0042, 0104
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Dell.................. 1972
Denko 0072
Denon 0081, 0042
Derwent 0041
Diamant 0037
Diamond 0348
Dick Smith Elec 0642, 0579
Digitor 0642, 0579
DirecTV 0739, 2033
Domland 0209
DSE.................. 0642, 0579
Dual 0081, 0000, 0041, 0278, 0348
Dumont 0081, 0000, 0104, 0105
Durabrand 0039, 0038, 0642, 0593
Dynatech 0240, 0000
Elbe 0278, 0038
Elcatech 0072
Electrohome..... 0060, 0037, 0240, 0000, 0043, 0209, 0061
Electrophonic ... 0037
Elin 0240, 0051
Elsay 0072
Elta 0072, 0278
Emerald 0184, 0121, 0211
Emerex 0032
Emerson........... 0035, 0037, 0184, 0039, 0240, 0045, 0000, 0121, 0043, 0209, 0072, 0002, 0278, 0348, 0561, 0510, 0593, 0479, 0378, 1278, 1479, 0361, 1593, 0343, 0295, 0294, 0212, 0211, 0208, 0202, 0088, 0068, 0061, 0036
ESA 1137
ESC 0240, 0278, 0020
EuroLine 1593
Europhon.......... 0020
Fenner 0020
Ferguson 0000, 0041, 0278, 0348, 0320, 0053
Fidelity.............. 0240, 0000, 0072, 0352, 0432
Finlandia 0037, 0048, 0081, 0000, 0042, 0104,

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	0043, 0384, 0046, 0110
Finlux	0081, 0000, 0042, 0104, 0105
Firstline	0037, 0045, 0042, 0043, 0209, 0072, 0278, 0348, 0088, 1137
Fisher	0039, 0047, 0000, 0104, 0020, 0046, 0054, 0066
Flint	0209, 0348
Frontech	0072, 0020
Fuji	0035, 0033
Fujitsu	0037, 0045, 0000, 0366
Fujitsu General	0037
Funai	0037, 0000, 0072, 0278, 0294, 0593, 1333, 1593
Galaxi	0000
Galaxis	0278
Garrard	0000
Gateway	1972
GBC	0020
GE	0060, 0035, 0048, 0240, 0000, 0149, 0320, 0065, 0077, 0202, 0277, 0760, 0761, 0807, 1035, 1060
GEC	0081
Gemini	0060
General	0045, 0020, 0366
General Technic	0348
Genexxa	0037, 0000, 0104, 0278
Go Video	0240, 0432, 0232, 0526, 0614, 0643, 1137
GoldHand	0072
GoldStar	0035, 0037, 0039, 0000, 0209, 0278, 0038, 0018, 0054, 0225, 1137, 1237
Goodmans	0037, 0081, 0240, 0000, 0209, 0072, 0278, 0348, 0642, 0352, 0020, 0062, 0343, 0579, 0742
GPX	0037
Gradiente	0000, 0008, 1137
Graetz	0240, 0104, 0041
Granada	0035, 0037, 0048, 0081, 0240, 0000, 0042, 0104, 0011, 0046
Grandin	0037, 0000, 0209, 0072, 0278, 0020, 0742
Grundig	0081, 0072, 0348, 0320, 0352, 0034, 0207, 0347, 0378, 0742
Haaz	0348
Hanimex	0352, 0295
Hanseatic	0037, 0081, 0209, 0038
Hantor	0020
Haojie	0240
Harley Davidson	0000
Harman/Kardon	0081, 0038, 0075
Harvard	0072, 0068
Harwood	0072, 0068
HCM	0072
Headquarter	0046
Hewlett Packard	1972
HI-Q	0035, 0047, 0000
Hinari	0240, 0209, 0041, 0072, 0278, 0352, 0088, 0208, 0343
Hisawa	0209, 0352
Hischito	0045
Hitachi	0035, 0037, 0081, 0240, 0045, 0000, 0042, 0041, 0384, 1326, 1286, 1037, 0593, 0544, 0105, 0089, 0082, 0065, 0046
Hoeher	0278, 0642
Hornyphon	0081
Howard Comps	1972
HP	1972
Hughes Net Sys	0042, 0739
Humax	0739, 1711, 1845, 1853
Hush	1972
Hypson	0037, 0000, 0209, 0072, 0278, 0352
Hytek	0047, 0000, 0072, 0036
iBUYPOWER	1972
Imperial	0000
Ingersol	0240, 0209
Inno Hit	0072, 0020
Interbuy	0037, 0072
Interfunk	0081, 0104
Internal	0278
International	0037, 0278, 0642
Intervision	0037, 0000, 0209, 0278, 0348
Irradio	0037, 0081, 0072, 1137
ITT	0240, 0104, 0041, 0384, 0046, 0378
ITT Nokia	0240, 0104, 0041
ITV	0037, 0278, 0020
Janeil	0240
JBL	0278
Jensen	0067, 0041
JMB	0209, 0348, 0352, 0742
Joyce	0000
JVC	0184, 0081, 0045, 0067, 0041, 0384, 1707, 1329, 1299, 1283, 1279, 1162, 0486, 0366, 0207, 0061, 0058, 0008
Kaisui	0072
Kambrook	0037
Karcher	0081, 0278, 0642
Kathrein	1802, 1868, 1869, 1870
KEC	0037, 0278
Keen	0693
Kendo	0037, 0209, 0072, 0278, 0348, 0642, 0315, 0053
Kenwood	0067, 0041, 0038, 0384, 0046
KIC	0000
Kimari	0047
Kioto	0348
KLH	0072
Kneissel	0037, 0209, 0278, 0348, 0352
Kodak	0035, 0037
Kolin	0043, 0041
Kolster	0209
Korpel	0072
KTV	0000
Kuba	0047
Kuba Electronic	0047
Kyoto	0072
Lenco	0278
Leyco	0072
LG	0037, 0240, 0045, 0000, 0042, 0209, 0278, 0038, 0051,

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Brand	Codes
	0053, 0225, 1037, 1137, 1237
Lifetec	0209, 0348
Linksys	1972
Lloyd's	0240, 0000, 0072, 0038, 0036, 0208
Loewe	1062, 0162, 0037, 0081, 1562, 0105, 0454, 1262
Logik	0240, 0000, 0209, 0072, 0011
Luker	0579
Lumatron	0278, 0593, 1137
Lunatron	1137
Lux May	0072
Luxor	0048, 0047, 0104, 0043, 0072, 0315, 0046, 0062
LXI	0037, 0000, 0042, 0067, 0054
M Electronic	0037, 0240, 0000, 0038
Magnadyne	0081, 0212
Magnasonic	0037, 0240, 0000, 0072, 0278, 0020, 0082, 0593, 1278
Magnavox	0035, 0037, 0048, 0039, 0081, 0240, 0000, 0149, 0642, 1781, 1593, 0618, 0593, 0563, 0110, 0054, 0011
Magnin	0240
Magnum	0642
Manesth	0081, 0045, 0209, 0072
Marantz	0035, 0081, 0209, 0038, 0062, 0295, 1381
Mark	0000, 0278, 0020
Marta	0037
Mastec	0642
Master's	0278
Matsui	0037, 0240, 0209, 0278, 0348, 0352, 0036, 0088, 0208, 0295, 0742
Matsushita	0035, 0162, 0081, 0227, 0367, 0454, 1162
Media Center PC	1972
Mediator	0081
Medion	0209, 0348, 0642, 0352
MEI	0035
Memorex	0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0072, 0278, 0348, 0307, 0569, 1262, 1237, 1162, 1048, 1037, 0579, 0479, 0454, 0046, 0062, 0054
Memphis	0072
Mercury	0020
Metronic	0081
Metz	1062, 0162, 0037, 0081, 1562, 0227, 0347, 0454, 0836, 1162, 1262
MGA	0060, 0240, 0043, 0061
MGN Tech.	0240
Micormay	0348
Micromaxx	0209
Microsoft	1972
Midland	0240, 0051
Migros	0000
Mind	1972
Minolta	0042, 0105
Mitsubishi	0060, 0048, 0047, 0081, 0000, 0042, 0067, 0043, 0041, 0642, 1343, 0807, 0443, 0242, 0214, 0173, 0075, 0061
Motorola	0035, 0048
Movie Walker	0072
MTC	0240, 0000, 0072
MTX	0000
Multitec	0037
Multitech	0039, 0000, 0072, 0020
Murphy	0000
Myryad	0081
NAD	0240, 0104, 0058
Naiko	0348, 0642
NAP	0039
Nebula Elec.	0033
NEC	0035, 0037, 0048, 0104, 0067, 0041, 0278, 0038, 0008, 0082, 0370, 1137, 1287, 1288
Neckermann	0081, 0041, 0208
Nesco	0000, 0072
Neufunk	0209
New Tech	0072
Newave	0037
Nikkai	0072, 0278, 0020
Nikko	0037, 0278
Nikkodo	0037, 0278
Nikon	0011, 0034
Nishi	0240
Niveus Media	1972
Noblex	0240
Nokia	0048, 0081, 0240, 0042, 0104, 0041, 0278, 0315, 0036, 0046, 0378
Nordmende	0067, 0041, 0320, 0384, 0207
Northgate	1972
Nu-Tec	0209
Oceanic	0048, 0081, 0000, 0104, 0041, 0046
Okano	0209, 0072, 0278, 0348, 0315
Olympus	0035, 0162, 0104
Onimax	0642
Onkyo	0222
Optimus	1062, 0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0432, 0062, 0058, 0054, 0454, 0593, 1048, 1162, 1262
Optonica	0062
Orbit	0072
Orion	0184, 0240, 0000, 0104, 0121, 0209, 0002, 0278, 0348, 0352, 1815, 1479, 0742, 0479, 0343, 0295, 0294, 0211, 0208, 0088, 0036
Orson	0000
Osaki	0037, 0000, 0072
Osume	0072
Otake	0209
Otto Versand	0081
Pace	0352
Pacific	0000, 0348, 0642, 0742
Packard Bell	1972
Palladium	0037, 0209, 0041, 0072, 0348
Palsonic	0000, 0072, 0642
Panama	0035
Panasonic	1062, 0035, 0162, 0000, 1562, 1807, 1393, 1317, 1308, 1293, 1292, 1262, 1244, 1162, 1035, 0836, 0616, 0615,

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0614, 0513, 0454, 0378, 0367, 0246, 227, 0225, 0077, 0051, 0020
Pathe Cinema .. 0043, 0036
Pathe Marconi.. 0041
Penney 0035, 0162, 0037, 0047, 0081, 0240, 0000, 0042, 0067, 0038, 0054, 0077, 1035, 1237
Pentax 0042, 0065, 0105
Perdio 0000, 0209
Philco 0035, 0081, 0000, 0209, 0072, 0038, 0110, 0479, 0561
Philips 0035, 0162, 0048, 0081, 0045, 0000, 0209, 0384, 0110, 0062, 0034, 0563, 0593, 0616, 0618, 0739, 1081, 1181, 1381
Phoenix 0278
Phonola............ 0081
Pilot 0037
Pioneer............. 0162, 0081, 0042, 0067, 0058, 1337, 1388, 1390
Polk Audio........ 0081
Portland 0278, 0020
Precision 0058
Presidian 1593
Prinz 0000, 0088
Profitronic......... 0081, 0240
Proline.............. 0000, 0278, 0642, 0320, 0615
Proscan............ 0060, 0202, 0760, 0761, 1060
Prosco 0278, 0844
Prosonic........... 0209, 0278
Protec 0000, 0072
Protech............. 0081, 0072
ProVision 0278
Pulsar 0039, 0240, 0278, 0051
Pulser 0240, 0051
Pye 0081, 0000
Qisheng 0060
Quarter 0046
Quartz 0035, 0047, 0046
Quasar 0035, 0162, 0002, 0278, 0077, 0454, 1035, 1162
Quelle 0081, 0208
Questar............. 0020
Radialva............ 0037, 0048, 0081, 0072
Radiola 0081
Radionette........ 0037, 1137
RadioShack...... 0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0046, 0062, 0066, 1037, 1162
Radix 0037
Randex 0037
Rank 0041
Rank Arena....... 0041
RCA 0060, 0035, 0048, 0240, 0045, 0000, 0042, 0149, 0320, 0065, 0077, 0105, 0058, 0202, 0211, 0054, 0277, 0760, 0761, 0807, 0880, 1035, 1060
Realistic 0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0121, 0278, 0046, 0062, 0065, 0066, 1162
Reoc 0348
ReplayTV 0614, 0616
Rex................... 0041, 0384
RFT 0072, 0020
Ricavision 1972
Ricoh 0034
Rio.................... 1137
Roadstar 0037, 0081, 0240, 0072, 0278, 0038, 0742
Royal 0072
Runco 0039
Saba................. 0041, 0278, 0320, 0384, 0062, 0207
Saisho 0209, 0348, 0036, 0088, 0208
Salora 0104, 0043, 0046, 0075, 0443
Sampo 0037, 0048
Samsung.......... 0060, 0240, 0045, 0000, 0038, 0432, 0051, 0053, 0077, 0210, 0212, 0739, 0760, 1014
Samtron 0240, 0643
Samurai............ 0020
Sanky 0048, 0039
Sansei 0048
Sansui 0240, 0000, 0067, 0209, 0041, 0072, 0002, 0348, 0082, 0271, 0479, 1479
Sanyo 0048, 0047, 0240, 0000, 0104, 0067, 0209, 0348, 0046, 0159, 0368, 0369, 0479, 1137, 1330, 1331
Saville 0240, 0278, 0352
SBR.................. 0081
ScanSonic 0240
Schaub Lorenz. 0000, 0104, 0041, 0348, 0315
Schneider 0037, 0081, 0240, 0000, 0042, 0072, 0278, 0348, 0642, 0352, 0110, 1137
Scientific Atlanta 0008
Scott 0184, 0045, 0121, 0043, 0036, 0208, 0210, 0211, 0212, 0593
Sears 0060, 0035, 0162, 0037, 0048, 0039, 0047, 0033, 0045, 0000, 0042, 0104, 0067, 0043, 0209, 0041, 0072, 1237, 0105, 0066, 0065, 0011, 0058, 0054, 0018, 0034, 0046, 0036
Seaway 0278
SEG.................. 0081, 0240, 0072, 0278, 0642, 0561
SEI.................... 0081
Sei-Sinudyne.... 0081
Seleco 0037, 0041, 0384, 0008, 0020
Semivox 0045, 0209
Semp................ 0045
Sentra 0072, 0278, 0020
Setron 0072
Sharp 0037, 0048, 0047, 0032, 0000, 0209, 0569, 0062, 0065, 0363, 0807, 0848, 1048, 1285, 1400, 1815
Shinco 0000
Shintom............ 0039, 0240, 0000, 0104, 0072, 0208
Shivaki.............. 0037
Shogun 0240, 0051
Shorai 0088

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Brand	Codes
Siemens	0037, 0081, 0104, 0320, 0046, 0054, 0347, 0510
Siera	0081
Signature	0060, 0035, 0037, 0048, 0000, 0149, 0046, 0065, 0066, 0479
Silva	0037
Silver	0278
SilverCrest	0642
Singer	0037, 0240, 0045, 0072, 0348, 0271
Sinudyne	0081, 0209, 0352
Smaragd	0348
Solavox	0020, 0034
Sonic Blue	0614, 0616, 0643, 1137
Sonneclair	0072
Sonographe	0046
Sonolor	0048, 0046, 0062
Sontec	0037, 0278
Sonwa	0642
Sony	0035, 0048, 0047, 0032, 0033, 0000, 0067, 1972, 1636, 1448, 1447, 1297, 1296, 1295, 1232, 1032, 0640, 0639, 0636, 0586, 0046, 0034, 0011
Soundmaster	0000
Soundwave	0037, 0209, 0348
Ssangyong	0072
Stack 9	1972
Standard	0278
Stern	0278
Strong	0271
STS	0042, 0105
Sunkai	0209, 0278, 0348, 0295
Sunstar	0000
Suntronic	0000
Sunwood	0072
Supra	0037, 0278, 0348
Susumu	0037
SV2000	0000, 0072
SVA	0000
Sylvania	0035, 0081, 0000, 0043, 0110, 0593, 1593, 1781
Symphonic	0240, 0000, 0002, 0593, 1593
Systemax	1972
T+A	0162
Tagar Systems	1972
Taisho	0209, 0088
Tandberg	0278
Tandy	0000, 0104
Tashiko	0037, 0048, 0081, 0240, 0000
Tatung	0048, 0081, 0045, 0000, 0067, 0043, 0209, 0041, 0348, 0352, 0008, 0053, 0366
Tchibo	0348
TCM	0348
Teac	0037, 0000, 0067, 0041, 0072, 0278, 0307, 0642, 0526, 0593, 0844, 1593
Tec	0072, 0020
Tech Line	0072
Technics	0035, 0162, 0037, 0081, 0000, 0246, 1162
TechniSat	0348
Technosonic	0352
Teco	0035, 0037, 0048, 0041, 0038
Tedelex	0037, 0209, 0348, 0642
Teknika	0035, 0037, 0000
Teleavia	0041
Telecorder	0240
Telefunken	0209, 0041, 0278, 0642, 0320, 0384, 0208, 0593
Telenet	1784
Telestar	0037
Teletech	0000, 0072, 0278
Tempest	0020
Tenosal	0072
Tensai	0037, 0000, 0072, 0278
Tevion	0209, 0348, 0642, 0479
Texet	0278, 0020
Thomas	0000, 0002
Thomson	0060, 0067, 0041, 0278, 0320, 0384, 0202
Thorn	0037, 0104, 0041, 0320, 0036, 0443
Tisonic	0278
Tivo	0618, 0636, 0739, 1337, 1996
TMK	0240, 0000, 0036, 0208
TNIX	0037
Tocom	0240
Tokai	0037, 0104, 0041, 0072
Topfield	1959, 2045
Topline	0348
Toshiba	0081, 0240, 0045, 0000, 0042, 0067, 0043, 0209, 0041, 0384, 0352, 0432, 1384, 1386, 1972, 1325, 1323, 1996, 1290, 1289, 1145, 1008, 0845, 0828, 0742, 0544, 0366, 0212, 0210, 0066, 0062, 0054, 0008
Tosonic	0278
Totevision	0037, 0240
Touch	1972
Towada	0072
Toyoda	0278
Tradex	0081
Trakton	0020
Triad	0278
Triumph	0208
Trix	0037
Uher	0240
Ultra	0045, 0278, 0020
Ultravox	0278
Unitech	0240, 0051
United	0348, 0742, 1593
Universum	0037, 0081, 0240, 0000, 0104, 0209, 0348, 1137
Vector	0045
Vector Research	0184, 0038
Vextra	0072
Victor	0067, 0041, 0384, 0008, 0370, 1283, 1299
Video Concepts	0045, 0061, 0210, 0242
Video Pro	0020
Video Technic	0000
Video Track	0443
Videomagic	0037
VideoPro	0020
Videosonic	0240, 0000, 0072
Viewsonic	1972
Villain	0000
Voodoo	1972

Wards	0060, 0035, 0037, 0048, 0039, 0047, 0081, 0033, 0240, 0045, 0000, 0042, 0043, 0041, 0072, 0038, 0149, 0046, 0058, 0018, 0062, 0065, 0011, 0212, 0479, 0760
Watson	0081, 0642, 0352
Weltblick	0037
Wharfedale	0642, 0593, 0615
White Westinghs	0000, 0209, 0072, 0278, 0479
World	0209, 0002, 0348, 0479
XR-1000	0035, 0240, 0000, 0072, 0208
Yamaha	0041, 0038
Yamishi	0072, 0278
Yokan	0072
Yoko	0037, 0240, 0072, 0020
Yoshita	0072
Zenith	0037, 0039, 0033, 0000, 0209, 0041, 0278, 0011, 0034, 0479, 1137, 1139, 1479
ZT Group	1972
ZX	0209, 0348, 0352

A-ACC

Accurian	2502
Altec Lansing	2500, 2501
Apple	2503, 2505
DLO	2504, 2509
Griffin	2508
iPort	2506, 2507
NaviPod	2505
Sonance	2506, 2507
TEN Technology	2505

V-ACC

ABS	1272
Accurian	1653
Alienware	1272
Amino	1481
Axonix	1447
Buffalo	1739
CyberPower	1272
D-Link	1554, 1731
Dgtec	1363
Epson	1563, 1650
Gateway	1272
Hewlett Packard	1272, 1267
Howard Comps	1272
HP	1272, 1267
Hush	1272
iBUYPOWER	1272
Keyspan	1344
KoolConnect	1481
LG	1415
Linksys	1272, 1365
Macro Image Tech.	1383
Media Center PC	1272
Microsoft	1272, 1805, 2049
Mind	1272
Motorola	1363
MyHD	1383
Niveus Media	1272
Northgate	1272
Packard Bell	1272
Panasonic	1120
Philips	1218
Pinnacle Systems	1447
Pioneer	1010
ReQuest	1245
Ricavision	1272
Roku	1486
Samsung	1190, 1490
Sensory Science	1126
Sharp	1010
Sony	1272, 1324, 1364
Stack 9	1272
SureWest	1481
Sylvania	1563
Systemax	1272
Tagar Systems	1272
Toshiba	1272
Touch	1272
Viewsonic	1272, 1329
Vizio	1126
Voodoo	1272
Xbox	1805, 2049
Zinwell	1363
ZT Group	1272

R-ACC

Bose	1629